ARCHIT



standard

contents

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

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glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

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ADA APRR

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DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 1761 Whitehall 0540 Victoria 9040 Design and Industries Association. 13, Suffolk Street, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. Electricity Commission. Savoy Court, Strand, W.C.2. DIA DOT Temple Bar 7565

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Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.

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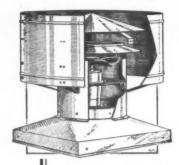
Langham 4041 FRHB

FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837 Georgian Group. 27, Grosvenor Place, S.W.1. Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Sloane 28 GG Whitehall 2881 HC Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.

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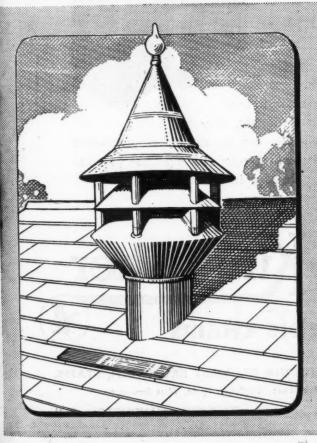
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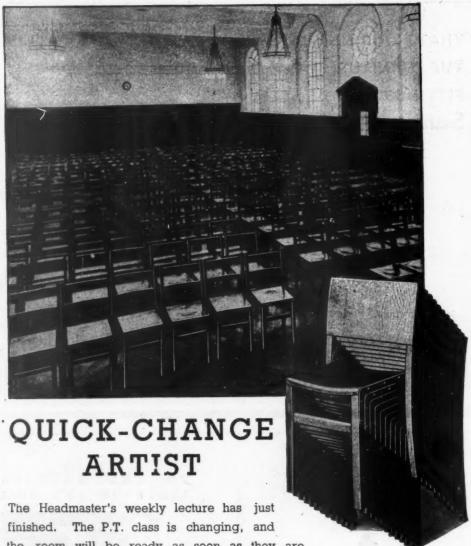
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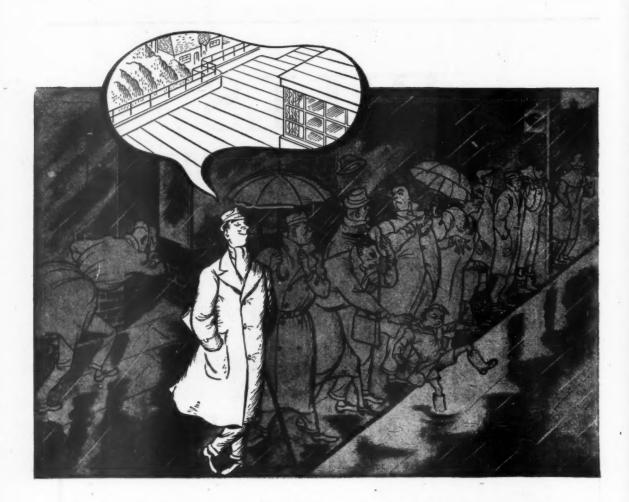
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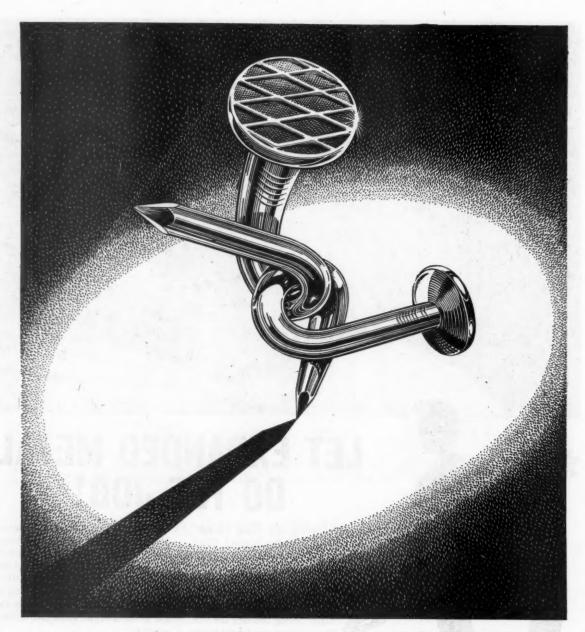
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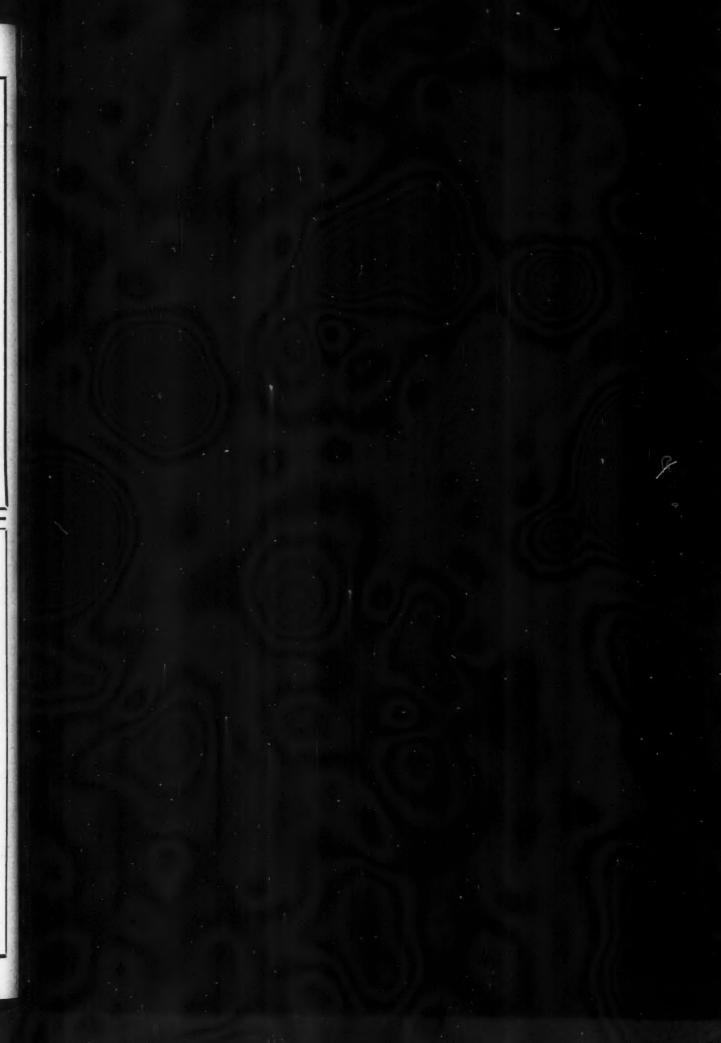
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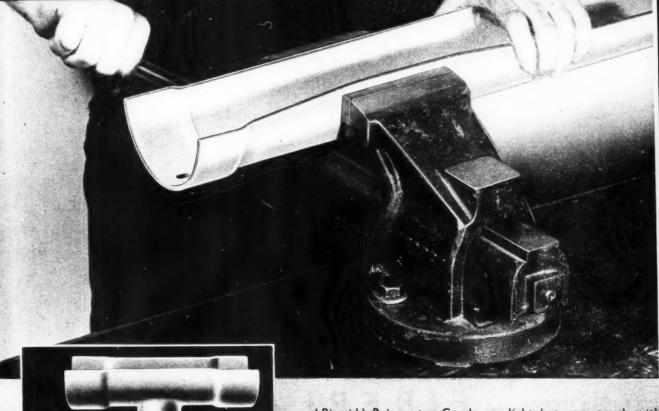
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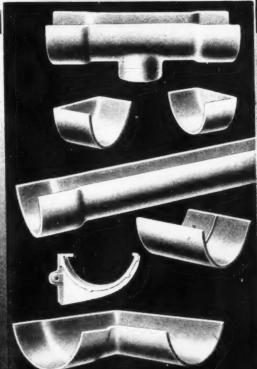
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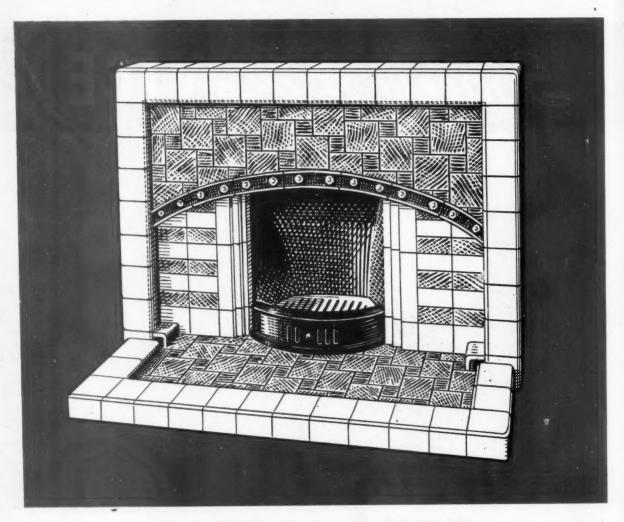
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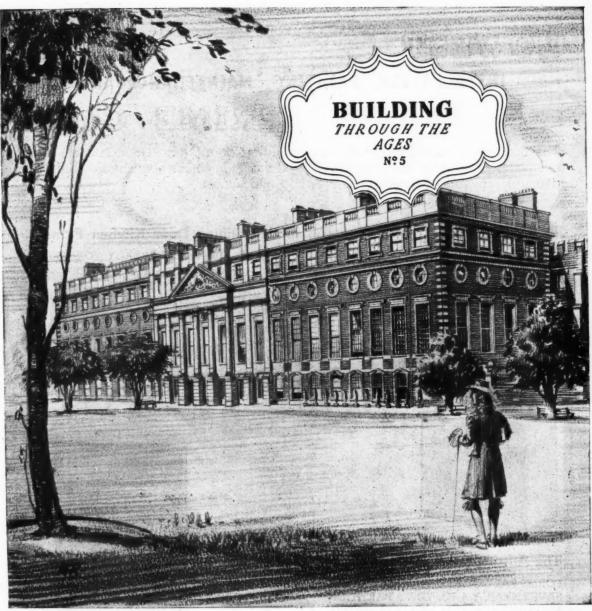


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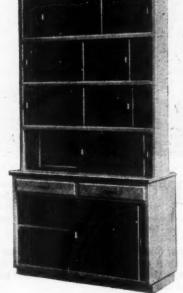
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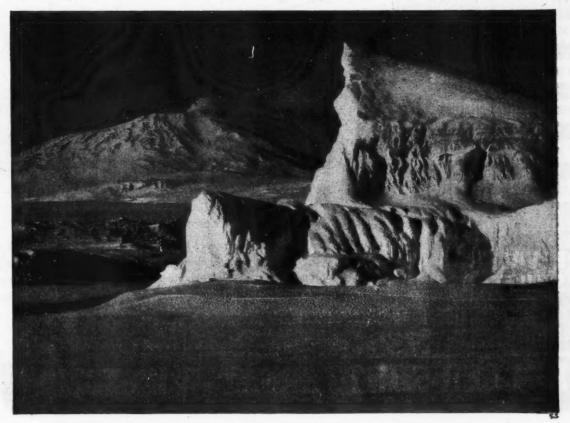
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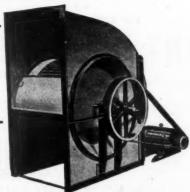
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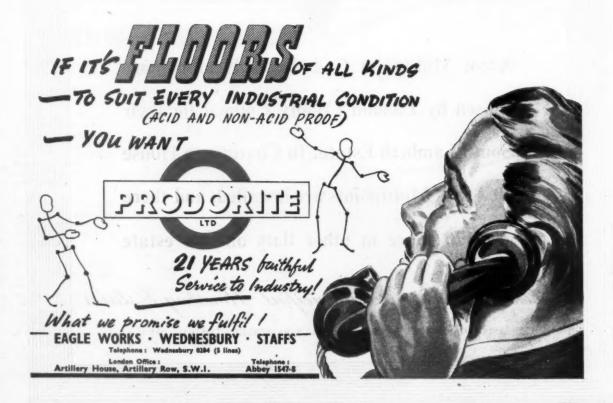
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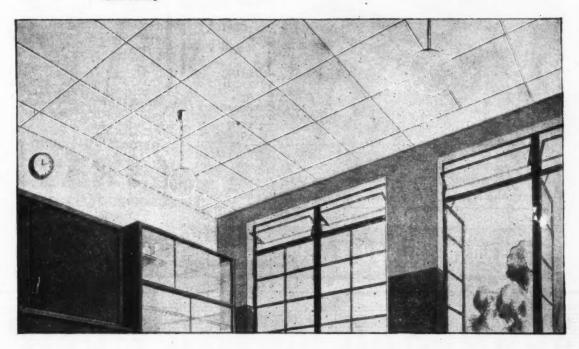
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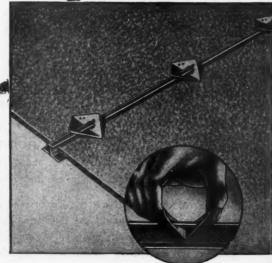
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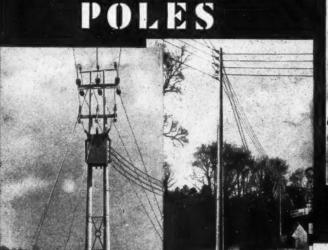
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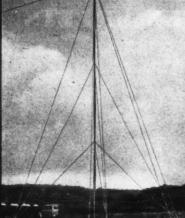
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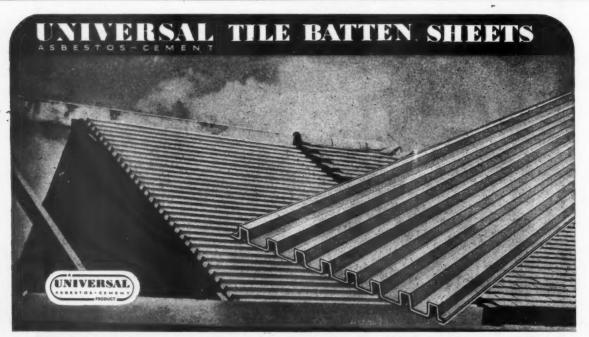
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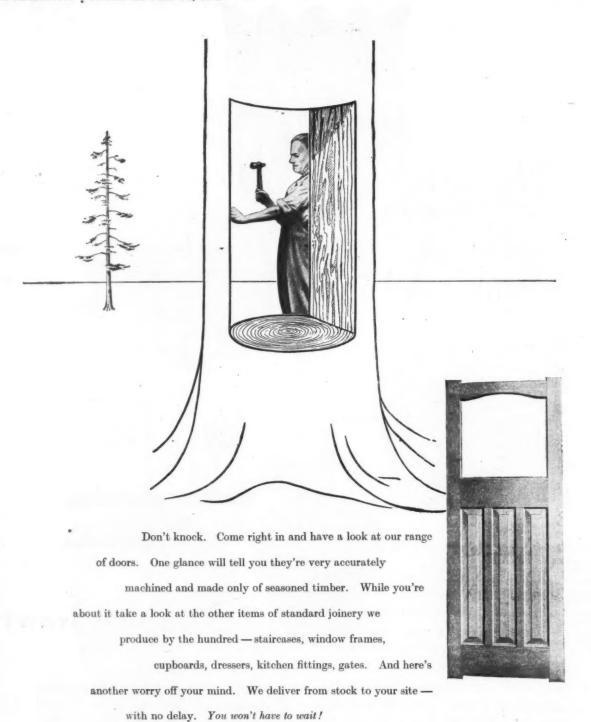
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on the watting-list. I heir names will then be added to the subscription list as soon as possible. Subscription rates: by post in the U.K. or abroad, £1 15s. Od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each; carriage 1s. extra.

DIARY FOR JULY AUGUST AND SEPTEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

B IRMINGHAM. Exhibition of Work of Students of College and Schwols of Arts and Crafts. Museum and Art Gallery. (Sponsor, City of Birmingham Education Committee.) Daily, 10.30 a.m. to 6.30 p.m. Sunday, 2 p.m. to 5.30 p.m. UNTIL JULY 25

DERBY. Derbyshire Homes Through Three Centuries Exhibition. Art Gallery, Strand, Derby. Weekdays, 10 a.m.-6 p.m.; Sundays, 2.30-4.30 p.m. UNTIL JULY 2

L ONDON. The Appearance of Housing Estates Exhibition. Housing Centre. 13, Suffolk Street, Haymarket, S.W.1. Weekdays, 9.30 a.m.-5.30 p.m. Saturdays, 9.30 a.m.-12 noon. UNTIL JULY 1

AA School Exhibition of Theatre Models.
Building Centre, 9, Conduit Street, W.1.
Daily, 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m. UNTIL JULY 9

Students Exhibition. Work of students of Regent Street Polytechnic School of Architecture, Surveying and Building. At Little Titchfield Street, W.I. Opening July 12, 2.30 p.m. Daily, 10 a.m. to 7 p.m.

JULY 12-14

J. A. Scott, W. J. Durnford and A. Talbot Rogers. *Health Centres*. At 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. July 13

Furniture Design Conference. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.)

JULY 18-22

One-day Conference on Rent Control and the Condition of Houses. Central Hall, Westminster, S.W.1. 10.30 a.m.

July 22

Exhibition of Industrial Finishes. At Earls Court. (Sponsor, CID.)
Aug. 31-Sept. 13

SOUTHAMPTON. Design Week organized by the Council of Industrial Design. Details to be announced locally. JULY 11-16

SOUTHEND. Exhibition of Work of Municipal College School of Architecture. Municipal College, Victoria Circus. JULY 5

Y ORK. Summer School of Architectural History and Measured Drawing: (Sponsor, York Civic Trust.) AUGUST 13-27

COMPETITIONS

Industrial Art Bursaries Competition. The Royal Society of Arts. Competition divided into sections for the design of carpets; domestic solid - fuel - burning appliances; dress textiles; electric-light fittings; footwear; furnishing textiles; electric-light goods; wallpaper. A Bursary of £150 in value is offered for each section. (Two Bursaries in the dress textiles section). Open to full-time, part-time and evening-class students, between 17 and 30 on October 1, who intend to take up industrial design as a career and have studied for not less than one term since July 1, 1948, at an art, architectural, technical, or other college or school approved by the Society for the purpose of the competition. Entry in the domestic solid-fuel-burning appliance section is also open to any draughtsman, clerk, or similar person, within the same age limits, already engaged in the solid-fuel-burning application is sponsored by the Coal Utilization Joint Council.

Utilization Joint Council.

Particulars and entry forms may be obtained from the Secretary, Royal Society of Arts, the principals of the schools and colleges concerned, and the Secretary, Coal Utilization Joint Council. The closing date for the receipt of entry forms is August 1.

NEWS

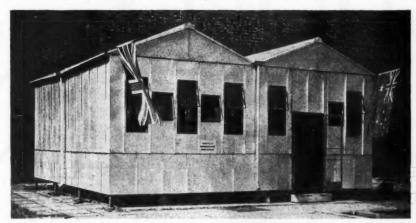
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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

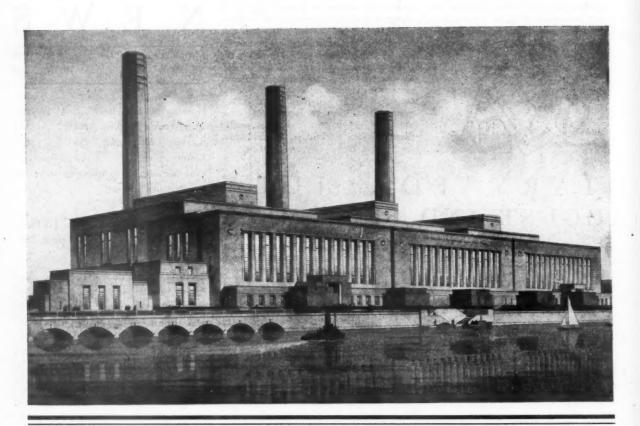
* means spare a second for this, it will probably be worth it.

** means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.



This prototype of a portable steel school classroom, patented by E. C. Mussett and Co., the manufacturers, was built to the design of the chief architect of the Department of Works, Hobart, and is intended for use in the Colonies. The building is of interlocking flat galvanised steel sheets constructed so as to give a 1-in. square vertical pier at the interlocking point, that is at 2-ft. centres. Through these centres \(\frac{1}{2}\)-in. diameter steel rods connect to the top and base angle frames. The roof is constructed on the same principle, and the roof and wall connections are so arranged that they provide a 1-in. air vent at the eaves. Hitherto this system of construction has been used for small portable buildings but in this classroom 3-ft. skirting sheets are connected by means of T bars to the 7-ft. sheets, thus giving the building greater height.



NEW GENERATING STATION, STAYTHORPE, NOTTINGHAMSHIRE Architect: T. CECIL HOWITT, F.R.I.B.A. BALFOUR, BEATTY & Co. Ltd., Engineers

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From AN ARCHITECT'S Commonplace Book

ARCHITECTURE IN IRELAND. [From Dublin, by John Harvey (B.T. Batsford, Ltd.).] Dublin is still a city almost unknown to English people, and the loss is ours. Between the mountains and the sea, it is one of the most fortunate of European capitals, and it has the enormous advantage of consisting mainly of buildings produced at the peak of its historic culture. Even English lovers of Georgian architecture, fond of England's rather colourless austerity, are a little frightened of the exuberance of Dublin—the rich and coloured traces of a southern, catholic, baroque past, that England never knew. We English have to go right back to the Middle Ages to find a period when we were fully alive, vitalized with rude health and abounding in a sense of the brilliant poignancy of life . . . It is still too early to assess the architects of the most modern developments of the city. There is undoubtedly a school (if I may be allowed for once to use this much abused word) of truly modern designers able, without any concessions to past decorative forms or even to traditional materials, to carry forward the rhythm of the older tradition. Such a work is Mr. Desmond Fitzgerald's Collinstown Airport, and another is the pleasing modern house just below the Sandycove Martello Tower, whose massive curves are echoed in a fine terminal bay, semicircular in plan, of glazed metal window: here is what most people would call a modernist dwelling, yet its fine composition and careful siting make it an embellishment to the natural beauty of the tiny harbour and rugged point.

The NEED FOR BETTER
CONCRETE was referred to in a recent address by Mr. J. Singleton-Green.
Mr. Singleton-Green, speaking at a meeting of the Reinforced Concrete Association, said that for many years there had been a demand for better concrete, but while the quality and dependability of cement and aggregates has been constantly improving, the steps necessary to ensure the production of better concrete had not been taken, except in relatively few instances. The reasons for this were perhaps chiefly commercial; they were thought to have a close relation to cost (although it could be demonstrated that an all-round improvement in concrete quality should ultimately result in a lowering of costs).

result in a lowering of costs).

There was no doubt that professional and scientific men who were concerned with concrete work were anxious to see better concrete. The Cement Economy Committee of the MOW would presumably welcome anything which would show a saving in cement. Better concrete, resulting from correct handling and procedure in production and use, would reduce the amount of cement required, and economy would be

effected.
Concrete was the only structural material which was made on the site. It was usually made by "unskilled" labour, under the immediate supervision of a man who had become foreman or ganger by virtue of his ability to handle men rather than as a result of his technical knowledge of concrete making. There were few craftsmen with the necessary knowledge and training to see that the concrete was made, placed and treated in the correct manner, and that all of it was so treated. It was a weakness in the building and engineering industries that this state of affairs should exist today when concrete had become such an important and widely used structural material. Plastering materials were mixed on the site, but craftsmen—that is skilled plasterers—were in charge of the work.

were in charge of the work.

The making of good concrete called for more knowledge, and information on concrete technology needed to be given in some suitable manner to resident engineers, clerks of works, foremen and concretors. This was a real difficulty, and a suitable scheme could only be put into operation after the matter had been considered carefully by representatives of all the people concerned.

The Reinforced Concrete Association had given much consideration to this problem, and it was sponsoring classes in concrete technology. A few of these had been given

in London, Manchester and Leeds. At the moment these classes were for all grades, but, in general, the people who attended were technicians rather than workmen. The intention was that consulting engineers should ensure the strict carrying out of their specifications by the appointment of resident engineers and clerks of works who were well versed in the subject and had, in effect, become concrete technicians.

There was, however, a second approach to the problems—through the men who were immediately responsible for doing the work. They should be instructed and trained in the operations of concrete making, and should become concrete craftsmen. Both these systems could well be in operation at the same time.

operation at the same time.

There was a real demand, which appeared likely to become insistent, for men with expert knowledge of concrete technique, and it seemed clear that if good concrete was to be obtained there must be someone on the job who was continuously responsible for it. Labourers would continue to be employed as at present, but it seemed necessary to emphasize that they should have some immediate control to ensure that they were doing their job properly. Remote control, through general foremen, clerks of works and resident engineers, was not enough.

A concrete craftsman would have many labourers in his charge, and the proportion of such craftsmen on a job would not compare with the number of bricklayers on a bricklaying job. Ultimately the concrete craftsman might be someone even a little higher than the carpenter or bricklayer (but in his own sphere only). To introduce a recognized concrete craftsman in the industry ntight prove to be a difficult problem, and numerous authoritative bodies would have to be consulted. However, the matter was urgent, and it was felt that the situation called for consideration in detail at the earliest possible moment.

SWEDISH ARCHITECTS

A party of 44 Swedish city officials, planners and architects arrived in London on June 18 for a fortnight's study of housing and town planning in this country, arranged by the TCPA. The tour commenced with a two-days visit to the Ministries of Town and Country Planning and Health, and to LCC housing estates and County Hall. The tour included visits to Oxford, Bournville and Birmingham, Leamington Spa, Chester, Manchester. Nottingham, Cambridge, Stevenage and Welwyn Garden City, where housing and

town planning was studied with the cooperation of the Municipal Authorities concerned.

A PLAN FOR The DEVELOP-MENT OF SOUTH WALES has been published by HMSO.

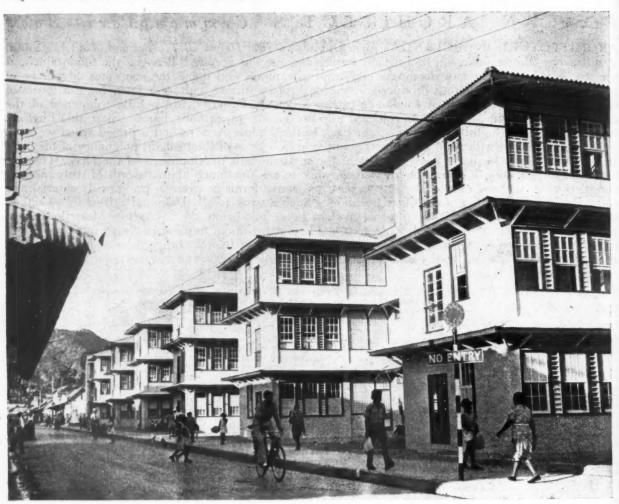
This South Wales Outline Plan (Stationery Office, 42s.) is the work of Mr. T. Alwyn Lloyd and Mr. Herbert Jackson. The authors' researches extended over 15 months and the report is based on conditions and requirements which were current at the time of preparation. It is presented as "the physical framework for work, homes and play for this development area."

The INTERNATIONAL FEDERATION OF LANDSCAPE ARCHITECTS

held its first meeting on June 18. The Federation was organized by representatives of fifteen nations after the International Conference on Landscape Architecture held in London last year. The recent council meeting was held in Paris, and representatives, including Mr. G. A. Jellicoe (president) were welcomed by M. Duprat (president of the Société Française des Architectes de Jardins), Membership of the Federation is now open to the recognized societies of Landscape Architecture in all countries. The office of the Federation is for the present in London at 12, Gower Street, W.C.1, and the secretary is Mrs. Douglas Browne.

EDUCATION AUTHORITIES will have started nearly £50m. of BUILDING WORK by the end of this year. This was announced by Mr. George Tomlinson, Minister of Education, when he spoke at the annual meeting of the Association of Education Committees at Pause.

This was announced by Mr. George Tomlinson, Minister of Education, when he spoke at the annual meeting of the Association of Education Committees at Bournemouth on May 17. He said that at the end of 1947 education authorities had £12 million worth of building in construction, and at the end of last year the figure was £27 million. Even today, he said, when about £36 million worth of work was actually under construction on the site, this was only the beginning of a vast building programme which would take many years to complete.



Trinidad Housing a t

Considerable attention is now being directed towards the social progress that is being made in Colonial territories. The above picture of a working-class housing scheme in Port of Spain, Trinidad, West Indies, is an example of work

being carried out under a ten-year development plan. This particular plan is made possible by Britain's gift of £15,500,000 to the Carribean Colonies to cover the decade ending 1956.

** The INCENTIVES SCHEME in the Building Industry WILL BE REVIEWED THIS YEAR.

The following is an extract from a statement issued by the NFBTE in connection with an explanatory memorandum on the subject which they have issued to their members:

The national settlement between employers and operatives under which, for the first time, it was agreed that building employers time, it was agreed that building employers might introduce schemes of incentive payments on their jobs, was introduced in October, 1947. It was left to each employer to decide what type of scheme, if any, he would introduce, but it was laid down that before a scheme started the work targets and bonus payments to be adopted had to be fived in advance and then cared with the operative concerned. Also the target bonus rates had to be so fixed as to allow "an operative of average ability and capacity a reasonable opportunity to achieve on such (bonused) work earnings 20 per cent. higher than those yielded by the normal prescribed rate." The settlement was for a period of two years. It will thus come up for review towards the end of this

The policy of the NFBTE has been, and continues to be, one of encouraging its members to operate bonusing schemes. To assist them in tackling the problems which arise, the Incentives Committee of the Federation has now issued its first exrederation has now issued its first explanatory memorandum with, as examples, complete details of several incentive schemes reported by builders as having been successfully worked by them. To quote from its introductory note: "The memorandum is not intended to do more than provide some ideas as to how incentives payments can be operated." The memorandum is not issued as an instruction to building employers, but for their guidance and to stimulate discussion between them, so that builders of all types and sizes in all parts of the country may benefit from the experience of their colleagues, and may from now on more easily both understand and introduce incentive schemes.

After reviewing and outlining the types of bonus schemes in operation—Stage Bonusing and Unit Rate Schemes being the most widely used—the memorandum goes on to suggest what the constituents of satisfactory schemes should be; they must be fair and contiable; they must be fair and planatory memorandum with, as examples,

schemes should be; they must be fair and equitable; they must be simple to under-stand; they must have targets possible of

attainment by the average operative, and they must also provide for regular bonus payments at as short intervals as possible.

In Stage Bonusing schemes the "target" is defined as "the period of time allowed for completing the particular bonusing unit or completing the particular bonusing unit or task set," the bonus being paid on the basis of the time saved. Alternatively, the target can be expressed in terms of money, in which case the bonus is paid—providing a saving is made, of course—on the basis of the difference between the actual labour cost and the "target" cost. The memorandum explains how this is worked and gives complete details, including the appropriate record sheets, of such a scheme in operation.

In Unit Rate schemes the "target" is defined as the amount of work (or minimum requirement) which has to be exceeded within a given time before any bonus is made. This type of scheme is suitable made. This type of scheme is suitable where the bonusing unit cannot be predetermined. An example of the working of such a scheme is given.

The memorandum concludes by referring to the possibility of extending incentive schemes to maintenance and repair; the committee sees no reason why some of this work should not be capable of being bonused provided that it can be measured. ** Th EL har presid Sir I presid electe Mr. Holfe Richa memb fessor ford

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The RIBA COUNCIL ELECTION RESULTS

have been announced.

Mr. Michael Waterhouse was re-elected president, Mr. H. S. Goodhart-Rendel and Sir Lancelot Keay were re-elected past presidents, and the new members of council elected are as follows:—

presidents, and the new members of council elected are as follows:—
Mr. J. Murray Easton, Professor W. G. Holford, Mr. Arthur W. Kenyon, Mr. R. E. Enthoven, Mr. P. G. Fairhurst, Mr. Richard H. Sheppard. The new associate members of the Council are Mr. Ralph Tubbs, Professor Joseph S. Allen, and Professor R. Gordon Brown. Mr. F. C. Wakeford was elected a licentiate member.

Kent County Council is to form a PANEL OF ARCHITECTS.

Members of this panel will advise the subcommittees of the planning committee in exercising their powers of controlling the appearance of buildings under the Town and Country Planning Act, 1947. They will be paid travelling expenses and a small fee based on the time spent at each meeting. Kent County Council was the first authority to decide that practising architects who are prepared to devote their time to the work should receive some payment in recognition of the useful service which they will discharge. The panel will operate, as an experiment, for one year, and is to consist of twelve architects who are practising in various parts of Kent. Their names have been selected by the president of the RIBA in consultation with the South Eastern Society of Architects.

in consultation with the South Eastern Society of Architects.

Architects who have been nominated for this purpose and who have agreed to serve on the panel are:—Mr. H. Anderson, Mr. H. J. Benions, Mr. Cecil Burns, Mr. C. J. Cable, Mr. C. I. Clay, Mr. J. L. Seaton Dahl, Mr. Gregory Grant, Mr. H. V. Godfrey, Mr. A. F. Hooper, Mr. C. J. F. Martindale, Mr. F. Arnold Perren, Mr. H. G. C. Spencelley

Spenceley.

It is proposed to refer to this panel only such designs for buildings which, in the opinion of the members concerned, are open to objection and which are of special interest or importance and involve questions of architectural design.

NEWS IN BRIEF

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Mr. Brian Hackett, a lecturer in the Department of Town and Country Planning, University of Durham, has been granted a Fulbright Award by the United States Government. He will spend the summer months in that country for the purpose of studying certain aspects of landscape and the planning of rural areas. He will be attached to Cornell University and will also study the teaching methods in schools of landscape and planning.

The Architects department of the Lancashire CC is employing a staff of 226 against the authorized figure of 252. The deficiency is mainly in experienced qualified technical staff. The County Architect's annual report states that the difficulty in recruiting staff is, in some measure, due to the shortage of supply, but to a great extent on account of higher salaries offered by Government sponsored bodies.

Sir George Pepler has been elected president of the TPI for the year 1949-50 and will take office in November next on the expiration of the term of office of Mr. James W. R. Adams. Sir George was also president in 1919-20.

THE BEST LAID PLANS

THE publication of the Reports of the Aycliffe, Crawley, Harlow, Hemel Hempstead and Stevenage Development Corporations was a useful reminder that such projects as the five new towns were in existence. The Reports cover a period (the first year to March 31, 1948) too long past to be of any immediate interest. During the year that has ensued much more, no doubt, has been accomplished, though it is already evident that the fair winds with which the schemes were originally launched have disappeared; indeed most people are left with the impression that they have drifted into a sort of Sargasso sea where they lie, to all

appearances, becalmed. It will be remembered that the idea that their fields and gardens were to form part of a new town to accommodate, in fine and healthy surroundings, a part of London's monstrously swollen population was received by the inhabitants of some of the "designated areas" with horror and even with open enmity. The reactions of those who were ultimately to live in these new surroundings were not ascertainable. However, with the publication of the Master Plans and their Reports, exhibited with models, considerable enthusiasm was discernible and many of the worst fears of the original inhabitants of the areas were allayed. Certainly there was a feeling among architects and planners that at last it would be possible to demonstrate that an urban environment, providing agreeable living conditions and good architecture, was not impossible. As Lord Beveridge stated in the preface to the Aycliffe Master Plan, "All the New Town Corporations are setting out with high aims-to do something new and better than has been done in the past. Between them they should be able to make a variety of interesting and important

The competition for the privilege of working as architects for the new Corporations was keen and a number of able, enthusiastic young architects started work. Alas for their hopes. So far it is possible to point only to a few not very exciting houses, struggling to be built. It is true that to construct a town for 60,000 people is no light undertaking, and much time is needed for surveys, analyses, studies, research and all the other preliminaries to architecture that are now so necessary and so fashionable. But the disappointing progress has been largely due to Government policy. No priority has been given to the new towns. Instead, the congested centres of the old cities, which the new towns were intended to relieve, are being built up to a far greater density

than the planners recommended.

There is a danger, also, that the original impetus may become, and indeed is already showing signs of becoming, exhausted. One result will probably be the loss to the service of the Corporations of many of their ablest and most enthusiastic employees. The remedy is not to increase the efficiency of the administrative machine—nothing but machines are produced

by machines. The road to the revival of enthusiasm lies, first, in the Government promoting large-scale action and, secondly, in the encouragement of experiment and originality. There will be mistakes, but such mistakes are the mark of growth. Without them the whole venture will become sterile.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitshall 0611

N O T E S

PAY FOR PANELS When panels to advise on the appearance of buildings were first proposed we all hoped they would help to put an end to spec.-built horrors, but they turned out to be rather a twoedged sword and seemed mostly to prevent our brighter types from doing a mildly contemporary job. But at least a large number of architects gave up a lot of time to a somewhat thankless duty, and I'm delighted to see that the County of Kent has decided that panel members shall at least be paid their travelling expenses and a small fee on a time basis. Excellent. Though Kent was, I believe, the first, Devonshire has already decided to do the same thing and other authorities seem likely to follow suit.

BIRMINGHAM SCHOOL OF ARCHITECTURE

Hearing from a colleague of the good work being done by Birmingham architectural students under the vigorous tuition of the Principal, Aldwyn Douglas-Jones, I managed to slip for half an hour into the exhibition of their work at the Birmingham Museum and Art Gallery.

There, half screened from the gaze of intense and hairy Pre-Raphaelite por-

traits, is a selection of students' work which is remarkably good for a school only one quarter the size of the AA. The way that the study of the history of architecture and of construction is integrated is to be commended. I am still waiting, however, for signs of a break away from Brazilian and Swedish influences amongst students' work.

Congratulations, by the way, to the Birmingham Corporation on keeping their Victorian cast-iron lavatories and bus shelters so brightly-painted. Even these humble objects should inspire the students by the vigour of their decoration.

COLOUR ON THE GROUND

Red roads for fast traffic, yellow for slow, and blue for parking space. Does that alarm the reader? The possibility of having asphalt roads in all the colours of the rainbow is not far off, or so I am told by the DSIR. Ignoring, for once, the dangers of such an invention in inexperienced hands, I do welcome the opportunity this may give to architects to pay attention to the most neglected aspect, æsthetically, of every town: the ground on which we walk.

Recent articles by Gordon Cullen in *The Architectural Review* have emphasized the lack of texture and pattern in modern street surfaces. Here, at last, are fresh possibilities, and well worthy of the architect's consideration.

PREMIER AT THE AA

The Premier has created a precedent by agreeing to present prizes to students of the AA School of Architecture at their annual exhibition of work on July 15, and a marquee is to be erected in the Square for the occasion. I believe Winston Churchill visited the School in 1924 and Lord Asquith opened a war memorial there in 1920, but neither of these gentlemen had reached the prime of their ministerial professions. There is no doubt that even the student who cannot remember

what Mr. Gladstone said, or when he said it, will have cause to remember what Mr. Attlee said in 1949.

HOUSING DEMANDED FOR PEST POLICE

Do bats eat cats? No, but they have a Calorific Intake on pests and therefore should receive the help of architects. That is what a Mr. Hugh Seaton tells me in a letter in which he recommends me to read "British Bats" by Brian Vesey-Fitzgerald (Methuen, 6s.). "In America," he writes, "bats have cleared orchards of pests which sprays would not control. In England they are completely neglected and despised. Modern life and building greatly threatens their already reduced numbers."

"Architects of all people," he continues, "are most responsible for the reproduction and existence of bats, for it is upon the construction of roofs and buildings as warm roosts in winter and safe breeding places in summer that bats depend; their numbers depend on such shelter." I have managed to get hold of a copy of Mr. Vesey-Fitzgerald's book and it certainly is interesting. I learnt that there are as many as 12 species of bat in Britain, all to be recognized by their method of flight; some glide, some nose-dive, some hover. They eat our worst pests from greenfly and codlin moth to cockchafer, but their reproduction rate is low since lady bats produce only one baby each per annum. It is well known that during the war British bats worked in close co-operation with our bourgeois scientists in the invention of radar. But we now see that even bats, like the middle classes, have their uses and deserve some encouragement.

HOUSING REFERENCE BOOK

Every housing authority in the country is now planning housing estates, mostly quite large ones. Hundreds of local authority architects and surveyors are looking for examples to study and for guidance on the great changes in legislation and design that have taken place in the last decade. Mr. Stanley Gale's new book* gives all these—especially the examples. There are about 200 illustrations, including all the classic layouts, garden cities, suburbs and whatnot,

*Modern Housing Estates, by Stanley Gale. Batsford, 1949. Price 35s. One Buil

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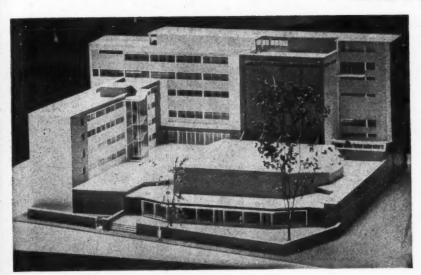
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One of the theatre models designed by AA students which are being displayed at the Building Centre until July 9. This model was designed by Bryan Thomas.

The book is a strange mixture of good and bad, but it has personality. One feels that one knows all that happened in its writing and one could almost write a potted biography of the author. He has come quite near to pulling off a classic text-book, but the vastness of his material and (one must say it) his apparent lack of understanding of present-day aims in planning residential areas has been too much for him. He has been unable to bring his material under control and the reader has to find his own path among the débris.

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On survey and road construction one is quite certain that Mr. Gale knows exactly what he is talking about. The same applies to housing legislation prewar, but here he fails to give the reader a clear picture of the progress of events: Chapter 4 implies that the T & CP Act, 1932, is still in force and one has to read pp. 97-102 very carefully to tell whether one is reading what was once advocated in some report or what Mr. Gale now recommends.

Except for the illustrations and some quotations from Government publications, the book has nothing to contribute on layout. The author's own ideal plan-which he rashly says is on present-day ideals "-contains almost every fault which an estate layout could contain and could certainly be vetoed by MOTCP and, one trusts, by MOH, in any part of the country. This is the real worry about this book. It is so useful that it is bound to be much used, and hundreds of man-hours may then be spent in drawing out variations of that ideal plan-and in turning it down.

GENIUS WANTED

I wonder if any readers would care to offer entertainment to young foreign architects during August? I have heard from the organizing secretary of the post-graduate Summer School (director, Maxwell Fry) which the MARS Group is holding on behalf of CIAM, that a number of the students from abroad are coming from countries where currency restrictions prevent their bringing much money with them. The Group is trying to help them out, and would be glad to know of anyone who can provide a bed for all or part of the time (four weeks from August 8), or invite one or two students away for week-ends or even for an occasional

The enthusiasm which this, the first international post-graduate school of its kind, is arousing abroad comes out well in a letter the secretary showed me from one of three prospective Dutch students: "Our financial status needs us to seek some adequate means of living and travelling. Thus we plan to cross the water by the Calais-Dover ferry, to travel to and from this ferry by "lifting" and to live in London in a very modest way, and we would be very glad and grateful to any good genius that could help us to find such a modest way of living in that great

town of London." Good geniuses please write to the Secretary, 34, Gordon Square, W.C.1.

ASTRAGAL

LETTERS

P. H. Laurence, A.R.I.B.A. Geoffrey L. Price, A.R.I.B.A. Frank Moate, A.R.I.B.A. R. A. Lambourn, A.R.I.B.A. John E. Deleuse, A.R.I.B.A.

LCC Housing

SIR.—I have visited the LCC housing exhibition and, frankly, I came away feeling utterly depressed and indignant at what I saw. Depressed because I had hoped to see the culmination of progressive ideas and the culmination or progressive ideas and schemes embodying all that is sound and fundamental in good design and construction, particularly after so much thought, time and energy have been given to the subject by so many authorities and individual viduals in this country and abroad. In my opinion, I saw the very reverse and anti-thesis of these hopes. Judging from this exhibition alone, one would assume that we in this country have a long way to go before we attain standards comparable with those achieved in most European countries, even before the war.

To my mind, the one and only exception

to this sorry display was the very nicely drawn and presented 1/16th scale elevation of the Woodberry Down scheme, which was not, however, accompanied by any plans. As it stands, it is by far the best of a very poor show.

London P. H. LAURENCE

SIR.—I should like to voice a little provincial criticism of the LCC Housing. I have unfortunately been unable to visit the Exhibition, but I am sure that many provincial architects will agree that your illustrations are quite sufficient to show the extremely poor quality of the work generally. I think it is fairly true to say that we in the provinces are often inclined to expect London to set a high standard in contemporary design. But really to expect London to set a high standard in contemporary design. But really—some of the stuff that is illustrated is incredibly dull and uninspired. If it were not for the fact that there are many photonot for the fact that there are many photographs of actual buildings, one might well imagine that it was an exhibition of housing during the inter-war years. It is not easy to pick out a "worst feature," but I think the design of shopping centres is pretty near the bottom. If the shops on the Chingford Estate, Essex, are a typical example, heaven forbid that the shops at Hainault, Essex, will ever be built as drawn drawn.

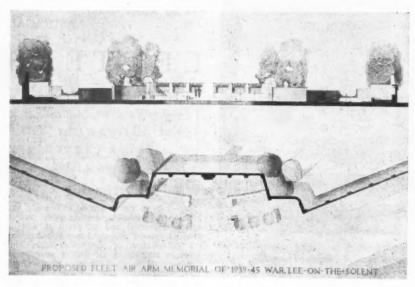
Several critics have pointed out the mis-take of having a valuer in charge of archi-tecture. I agree; it is all wrong. But surely this exhibition offers evidence of the hability of large departments to produce a live architecture. I do not know the strength of the Valuers' Architectural Department, but it must be very big to produce such a huge quantity of building this exhibition offers evidence of the induce such a huge quantity of building work; and such "bigness," I believe, will inevitably produce at best a dull and stolid kind of architecture.

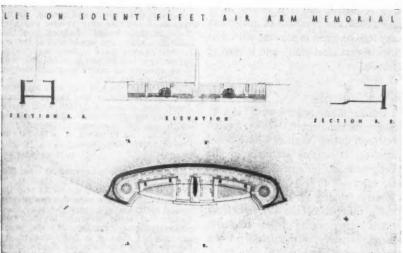
This tendency towards large architectural departments is growing at an alarming rate. In a recent issue of the Journal there were just over a hundred jobs for architects advertised by fifty odd different authorities, and this huge demand shows no sign of

diminishing.

It would be very interesting to see another exhibition of local authority architecture—

MEMORIAL COMPETITION







The winners of the competition for the proposed war memorial to I the Royal Naval Air Service 1939-45, at Lee-on-Solent, Hampshire, have been announced. First prize, £100, J. C. Smith and L. K. Pallister (top): Second prize, £60, John A. Strubbe (centre)... Third prize, £30, Norman Harrison (left). In his report, the Assessor, Edward Maufe, R.A., also commends the designs of S. H. Smith, Charles Blythin and L. C. Holbrook, J. S. Snell, Major A. D. Kirby and Peter Bosanquet.

say Liverpool or Glasgow-as this might give an indication of the relative merits of an architectural department being con-trolled by an Architect or a Valuer. But whatever the result might be, I still maintain that good architecture must have a human and even a personal touch and that such a feeling cannot be engendered by the building up of enormous architectural staffs by the various public authorities throughout the country.

Let me finish by saying that I do not think that all departmental architecture need be bad. Coventry and Hertfordshire have produced some really excellent design. Let us hope that they do not develop any urge for enormous expansion.

Newcastle-upon-Tyne GEOFFREY L. PRICE

SIR.—Being very much in agreement with J. M. Richards' broadcast remarks on the standard of LCC housing schemes, I was very pleased to see the JOURNAL endorse these criticisms and follow with the readers' comments. Surely, though, by this time the feelings of architects have been very definitely expressed and there can be little doubt in the minds of the LCC as to what the profession as a whole feels about the the profession as a whole feels about the schemes on exhibition. Little can be gained by further repeating the same criticisms time and time again.

and time again.

In view of the Council's generous reception of these criticisms, would it not be more appropriate to cease to labour these points, so clearly established, and instead let us see in the JOURNAL more photographs of the best examples of modern architecture and present-day housing schemes both in this country and abroad on which the LCC might base their new standards..

Stoke-on-Trent FRANK MOATE

SIR,—First, I question whether the most efficient means of insulation against the noise nuisance has been used in the floors and in the dividing walls between flat and flat. I suggest that occupants are at least entitled to the utmost privacy modern build-

ing technique can devise.

Secondly, blocks of flats of over 3 storeys high are still being built without lifts and as mothers will have to carry their babies upstairs, I suggest lifts should be provided to all blocks above 2 floors high as a standard measure

Thirdly, at Hatch Lane, Chingford, the elevation above the shops is not unpleasing but most facia boards follow the old high level

most facia boards follow the old high level tradition which will again result in ugly expanses of unnecessary plate glass, most undesirable in cottage estates.

Fourthly, looking at the elevations generally, fenestration either follows the old-fashioned double hung sash or that typical council house feature, the standard metal window, with the usual unpleasant results. window, with the usual unpleasant results. It is suggested that the architects are allowed to use their own discretion in future.

R. A. LAMBOURN Virginia Water

SIR,—While it is unfortunately true that there is much in the LCC post-war housing schemes that is mediocre and out of keeping with the highest standards of contemporary design, it is to be regretted that many of the criticisms made in your columns are of a destructive nature, and would appear to be made by individuals with little of no pre-war architectural experience, and with but little appreciation of the problems involved.

By all means let us offer criticism where such is due, but let us avoid being biased on account of the work being entrusted to the County Valuer (however wrong this may be in principle), and let our criticisms be constructive.

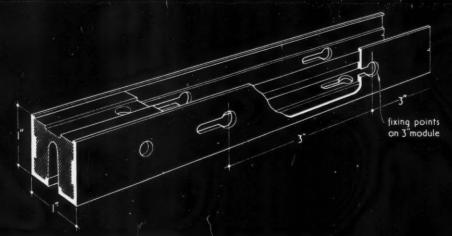
The solution of a re-housing problem in Berne, Budapest or Copenhagen is not necessarily correct when applied to Bermondsey, Bethnal Green or Chelsea.

JOHN E. DELEUSE

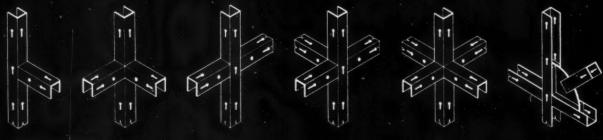
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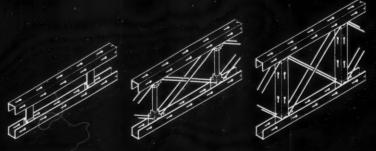
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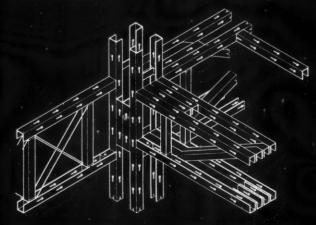
PERSPECTIVE VIEW OF BASIC SECTION (EXTRUDED ALUMINIUM ALLOY AWIOB).



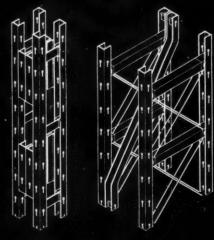
RANGE OF JOINTS



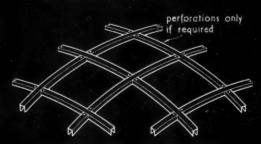
BEAM ASSEMBLIES.



PART OF TYPICAL BUILT-UP STRUCTURE.



COLUMN ASSEMBLIES.



DOME OR BARREL VAULTING ASSEMBLY.

KEYLOCK · SYSTEM OF CONSTRUCTION : BASIC PRINCIPLES 1

This Sheet describes a system of connecting extruded structural elements to form a flexible range of building components. The system has been developed to combine the advantage of orthodox prefabrication with the flexibility characteristic of more piece-meal methods of construction.

It has been developed on the basis of a 3-in. module, that is to say the extruded sections may be connected at 3-in. centres. Although the 3-in. module has been adopted for initial development this is not an inherent part of the principle for a metric or other English dimension is equally practicable. The extruded structural aluminium section is so designed that from two to four similar sections may be connected at any perforated fixing point by means of special locking elements. The locking elements are pressure die-cast to a high degree of accuracy and the only tool needed to effect final fixing is a light hammer. Assembly of these locking elements and final fixing may be carried out by unskilled labour, but a skilled building operative will necessarily assemble and fix with greater facility.

Any structure built by this system is demountable a simple ejector tool being used to remove the locking elements, and any structure may be extended or have additional members inserted without demounting any part of the existing structure. The drawings on the face of this Sheet illustrate the standard section, the basic range of jointing practicable, a range of typical built-up building components and illustrations of typical rectangular and domical structures.

Materials

Extruded channel sections, aluminium BS/STA 7/AW.10B perforated and sawn to length. This material has an ultimate tensile stress of 18 tons per sq. in. and a 1 per cent. proof stress of 15 tons per sq. in.

Extruded aluminium alloy end-pieces BS/STA 7/AW.

General Application

The system has primarily been developed for the economic construction of single- and double-storey small- and large-span structures. It is regarded as economic, however, for multi-storey buildings not exceeding four storeys high. Efficient single-storey structures of very large span may be built; for instance, a 200-ft. diameter semi-circular dome designed on geodetic principles.

Although the system has been designed primarily to meet structural problems, special methods of cladding are available in addition to traditional and patented fixing techniques.

This Series of Sheets covers details of the locking system adopted, typical examples of structural and cladding details for domestic and similar single- and double-storey buildings, large-span single-storey buildings, such as warehouses and assembly halls, and loading tests on typical structural assemblies.

Compiled from information supplied by:

Packaged Buildings (Robert Building Inventions Limited)

Head Office: Indio House, Bovey Tracey, South Devon Telephone: Bovey Tracey 2261 Registered Office: 63-65, Piccadilly, W.1 Telephone: Regent 6580

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FLOOR FINISHES LINOLEUM

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thickness mm.	2.00	2.50	3.00	3.50	4.50	6.00	6.70
full size							
nominal thickness in.	5/64	3/32"	1/8"	9/64	11/64	15,64	17/64

PLAIN LINOLEUM.

thickness mm.	l·45	1.80
full size		
nominal thickness in.	1/16	5/64

PRINTED LINOLEUM.

thickness mm.	1.60	2.00	3.50
full size			
nominal thickness in.	N6*	5/64	9/64"

INLAID LINOLEUM.

thickness mm.	1.60	2.00	3.50	4.50	6.70
full size					
nominal thickness in.	1/6"	5/64	9/64	11/84	1764

GRANITE. JASPE, MOIRÉ AND MARBLE.

thickness nm.	2.50	3.00	3.50	4.50	5.50	6.50	8.00
full size							
nominal thickness in.	3/32	1/8"	%4	11/64	1/32	1/4"	5/16

CORK CARPET.

thickness	2·50 mm. (³ / ₃₂)	3·50 mm.(⁹ /64 [#])	4·50 mm.(1/64)	6:70 mm.(17/64
application	domestic	showrooms, offices, domestic	hospital wards, restaurants, shops, offices	ships, cinemas, theatres, public buildings, hotel bars

APPLICATION ACCORDING TO THICKNESS.

LINOLEUM: SUMMARY OF TYPES.

Compiled from information supplied by The Linoleum Manufacturers' Association.

19.G1 LINOLEUM: GENERAL DATA, TYPES AND USES

This Sheet, the first of a group on linoleum, covers general data, types and uses. Information on the laying and fixing of linoleum is given on Sheet 19.G2, and specifications on Sheet 19.G3. 19.G4 deals with specialised applications such as to furniture and fittings.

Material

The principal ingredient in the manufacture of linoleum is oxidised linseed oil. This is mixed at a high temperature with thoroughly ground cork or wood flour and colouring pigments. Linoleum is dried or seasoned in heated chambers for from two to six weeks according to thickness.

For all gauges the plastic mass, whilst in the unseasoned state, is applied to jute or hessian backing under pressure.

On plain linoleum up to and including 2.50 mm, gauge the backing may or may not be painted. Gauges thicker than 2.50 mm. always have unpainted backings.

In other types of linoleum, gauges up to 4.50 mm. may or may not have a painted backing according to quality.

All linoleums of gauges greater than 4.50 mm. have an unpainted backing except in some cases (jaspe and marble patterns).

Linoleum does not absorb water and does not support combustion. It has germicidal properties due to the linoxyn formed during the process of oxidising the linseed oil.

Types

The types of linoleum obtainable are listed below. The standard range of thickness in which various types are obtainable is set out diagrammatically on the face of this Sheet.

The gauge of linoleum is usually given in millimetres, but for convenience approximate inch equivalents are given.

Plain linoleum: This is available in the following standard colours—brown, dark brown, light green, dark green, light blue, dark blue, terra-cotta, crimson, brick, white, black, grey and biscuit.

Printed linoleum: This consists of a surface print on a base of plain linoleum and is produced in a very wide range of patterns. This type of floor finish is commonly used where an inexpensive covering is required.

Inlaid Linoleum: This is made by inlaying a variety of colours to form a pattern which goes right through to the backing. The individual components of the pattern are cut, laid in position and keyed to the backing under pressure. This type of linoleum is suitable where a pattern is required combined with resistance to heavy wear.

ALTERNATION OF

Granite, jaspe, moiré and marble linoleums: These are formed by the blending of a variety of coloured linoleum mixtures during the manufacturing process.

Cork carpet: This is a resilient floor covering with a softer tread than ordinary linoleum, being largely composed of granulated cork. Standard colours available include brown, blue, green and red. It is chiefly used in situations where quietness is desirable. Cork carpet can be used as an underlay beneath linoleum.

Applications

An estimate of the amount of traffic to be provided for will govern the gauge of the linoleum to be used. The diagram on the lower part of the face of this Sheet gives approximate gauges recommended for some common applications.

The heavier gauges of linoleum may be cut into tiles, strips, etc., and arranged in any design.

Maintenance

Under ordinary conditions all linoleums may be kept clean by the use of mild household soap and a clean wet cloth. Scrubbing with harsh soaps or powerful alkali cleaning agents is injurious. To maintain the surface it should first be cleaned of all dirt and a light, even coat of wax polish rubbed well in. At frequent intervals, once daily if possible, all loose dirt should be removed with a damp cloth and the surface repolished with a polishing machine or pad. Linoleum should not be over-waxed: when this condition develops the coatings should be cleaned off with white spirit or paraffin, and a light even coat of polish applied.

Compiled from information supplied by:

The Linoleum Manufacturers' Association.

Address: Roxburghe House, 278-287, Regent Street, London, W.1.

Telephone: Regent 6140 & 6149

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From the south-west.

FACTORY AT ILKESTON

DESIGNED BY HARALD WEINREICH IN COLLABORATION WITH CYRIL F. HASELDINE

GENERAL.—The building is an extension to an existing hosiery factory, and is the initial step in the first stage of the development based on a master plan. The existing factory being self-contained, the new block is designed to house only the knitting process and its ancillary operations and stores. The task was to create a specially designed building to accommodate a series of processes in their correct sequence, and yet to retain the elasticity required

in any industrial plant. The block is planned with knitting shops on the east side of the main corridor and the ancillary shops with their stores, cloakrooms and vertical communications on the west side. At a future stage this corridor will be extended north and will eventually serve 3 similar blocks.

LAYOUT.—The site slopes considerably towards the east and north, so that the basement level of the adjoining old factory is some 18 in. above the ground-floor level of the new block.

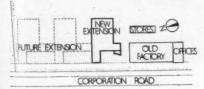
The 1st and 2nd floors of the old and new blocks respectively are on the same level. They may be connected by a covered bridge at a later stage.

PLANNING.—The plan form is governed by (1) Production requirements and flow; (2) Site

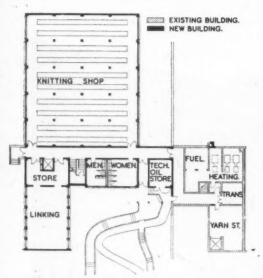
conditions and access; (3) The need for fitting in with master plan and with existing factory; (4) Aspect.

The knitting is done simultaneously in the two shops in the east block, and as soon as conditions permit a third shop will be added, bringing the whole building up to three-storey height. The ancillary processes start at ground-floor level in the linking shop and continue upwards, ending in the examining room on the top floor, the goods being conveyed by a lift easily reached from any section of the building.

The goods are sorted out on a large table and those wanted are pushed down a spiral chute into the despatch store immediately below and held there in readiness for the dyers' van to pick them up in the adjacent loading bay.



SITE PLAN [Scale : 1:3000]



GROUND FLOOR PLAN

[Scale: $\frac{3}{11}$ " = 1'0"]

Workers enter the building by their own entrance under the loading dock but can also reach it by the entrance at first-floor level from a private road. All workshop windows face north and south to avoid the shallow morning and afternoon sunlight.

Cloakrooms and sanitary offices are in identical positions on all floors.

CONSTRUCTION.—The building is steel-framed with hollow concrete block walls throughout, ex-

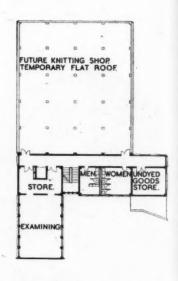


FIRST FLOOR PLAN

cept in the lavatories, where wood wool slabs have been used to form the cavity for piping and the partitions. All external walls are rendered down to D.P.C. level. The structural floors are in R.C. and, owing to the fall of the site, the ground floor slab is suspended on concrete block dwarf walls taking the place of the joists above.

ELEVATIONAL TREATMENT.

—The glass blocks employed in the openings of the knitting shops



SECOND FLOOR PLAN

and in the stairs are set in a frame of quarry tiles. In the knitting shops, casements with clear glass are set in line with the gangways.

INTERNAL FINISH.—All walls and ceilings are plastered and painted. A colour scheme was introduced in consultation with Mr. R. Nagel, designed not only to give a light and pleasant atmosphere throughout the factory, but to stimulate production. The knitting shops are a light shade of

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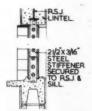
From the south-east.

FACTORY AT ILKESTON





Left; the main staircase. Right; a knitting shop.



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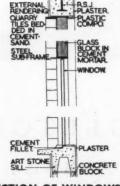
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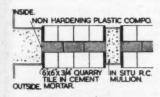
N

SECTION OF CLOAKROOM WINDOW

[Scale: # full size]



SECTION OF WINDOWS



PLAN OF WINDOW TO KNITTING SHOP ABOVE STEEL SUB-FRAME

turquoise, the ancillary shops rose tan and light sand, the corridors and stairs a light sunshine, and the male and female cloakrooms sunshine and rose tan respectively. Machinery and benches have been included in the colour scheme and their painting is now in progress. Doors are a darker shade of turquoise, dark sand, or grey, according to the storey they serve. The floor finish throughout is hardened and coloured granolithic in panels separated by expansion

strips, and in the stairs has an admixture of carborundum.

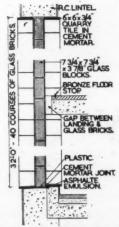
SERVICES.—Warm water radiators fed from solid fuel boilers with automatic stokers.

The boiler house under the private road between the old and new blocks will facilitate fuel delivery. The system is thermostatically controlled to a fine degree:

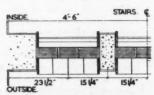
Plumbing is of the one-pipe system and is placed in a cavity dividing the lavatories, with inspection covers under the basins.

The main contractors were J. W. Stamp and Co.

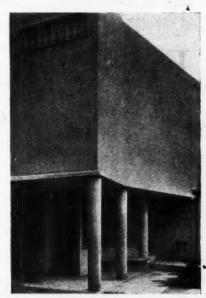
For list of sub-contractors see page 598.



SECTION OF STAIRCASE WINDOW



PLAN OF STAIRCASE



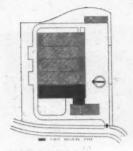
The main entrance.



A view from the West, showing the barrel vault roof.

FACTORY AT CONGLETON

DESIGNED BY RUDOLF FRANKEL



SITE PLAN
[completed section shown black]
Scale: 1:4000

GENERAL.—This is the first completed section of a knitting and clothing factory to be erected at Congleton, Cheshire. The final scheme will consist of five similar bays, with a two-storey building to contain offices and canteen.

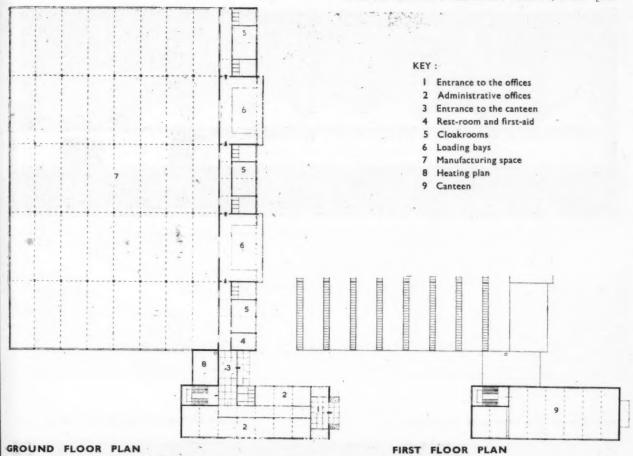
CONSTRUCTION.—The factory has a reinforced concrete frame, with reinforced concrete barrel vault roofs over the manufacturing area of the building. These barrels, each 20 ft. by 50 ft., with a radius of 17 ft. 6 in., are lined with insulation board and covered with

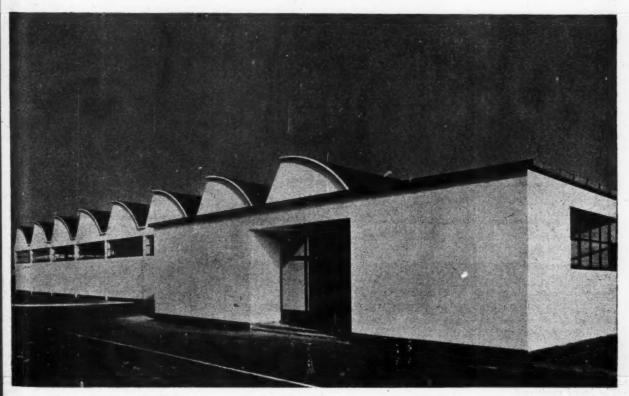
bituminous felt. They are painted white inside and the shell is designed to reflect and distribute north light for interior illumination. The wing facing south comprises loading bays and cloakrooms. The walls of this wing are 11-in. cavity brick, rendered and painted white. The plinth, entrance steps and paving are of dark blue industrial brick. The windows, doors and gutters are painted dark blue.

painted dark blue.
The main contractors were R. John Addison, Ltd. For list of subcontractors see page 598.

GRO

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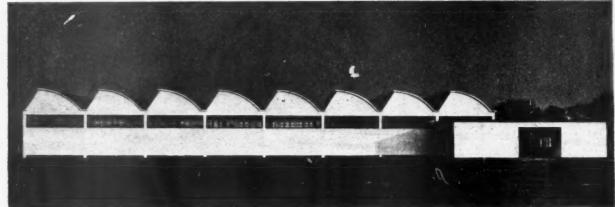


Another view from the West.

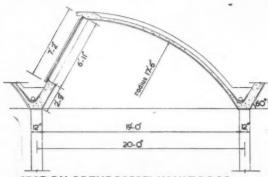
[Scale: 10"]

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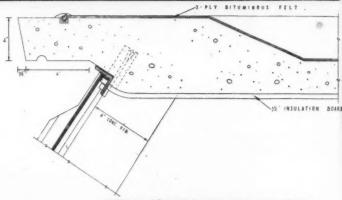
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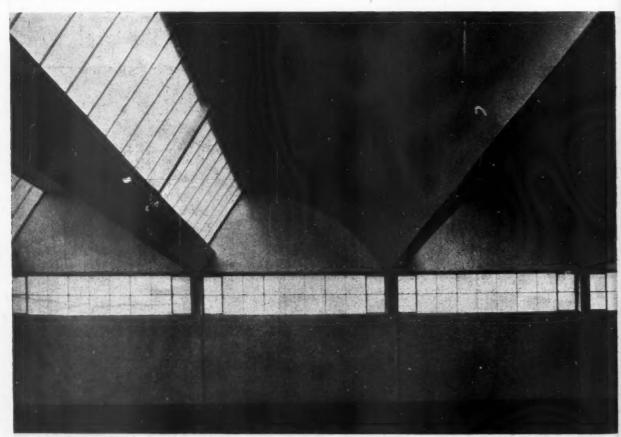
West elevation



SECTION OF THE BARREL VAULT ROOF

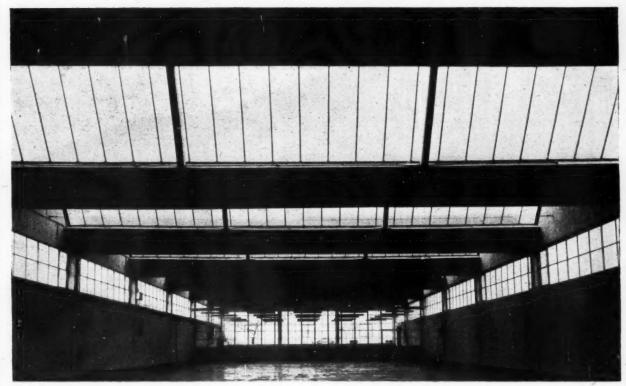


DETAIL OF THE BARREL VAULT ROOF

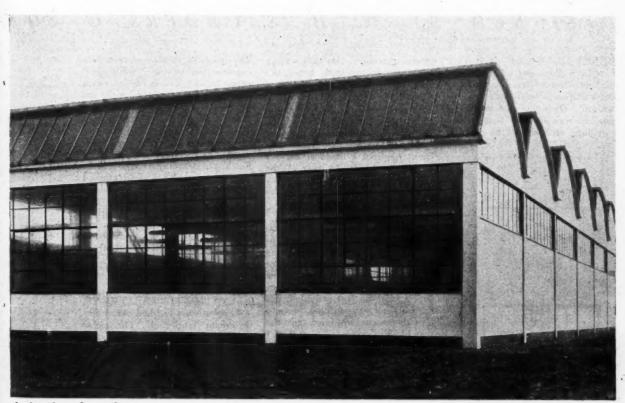


The barrel vault roof.

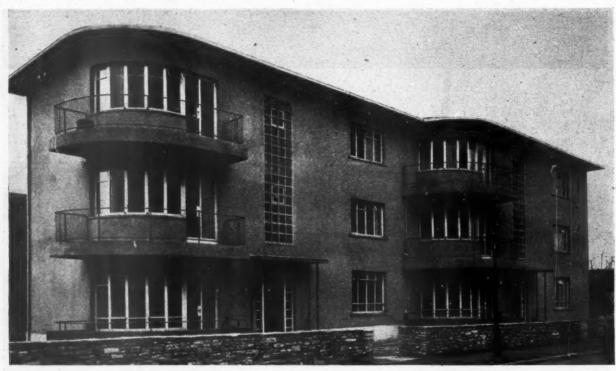




The manufacturing area, looking north.



A view from the north.



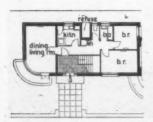
The entrance front.

FLATS AT SOUTHAMPTON

SON. DESIGNED SAUNDERS H.

GENERAL.—A small block of six flats in replacement of an Edwardian dwelling house, converted into flats, which was destroyed by enemy action. Owing to the restricted site, it was desired that access corridors, etc., should be reduced

TYPICAL FLAT



GROUND FLOOR PLAN

[Scale #"-1' 0"]

to the minimum, also that service staircases be omitted, hence the decision to build in two blocks of three flats.

SITE.—The narrow shape of the site plus the building line on the road junction, and the fact that the client required a block of garages to be erected at the rear of the flats in the future, determined very much the shape and size of the building.

PLAN.—The building has been divided vertically, each flat being approached from a staircase landing and having its own small entrance hall. In order to obtain extra_ light to the living rooms, curved angle windows are provided and the building stepped back so as to provide such windows to the rear block.

CONSTRUCTION.—The building was originally designed as a steel framed construction, but owing to the steel situation it was redesigned with load bearing brick walls with only the balconies and curved angles steel framed.

The roof is reinforced concrete construction of the "umbrella' type, having a 2 ft. 6 in. eaves projection. The internal walls are of brick. The ground floor is of mass concrete, finished with oak wood block flooring. The first and second floors are reinforced concrete construction, the floors being finished in boarding fixed to 2-in.× 2-in. fillets secured to the reinforced concrete with insulated bulldog Bathrooms, kitchens and clips. w.c.s have composition flooring. The entrance vestibule floors are in quarry tiles. The staircases are of reinforced concrete construction, and staircase windows of glasscrete construction.

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ELEVATIONAL TREATMENT. -The walls are finished externally in cream rendering. The eaves soffite, soffites of balconies and plinth are rendered with a float finish and painted with a dove grey stone paint. The ground floor balconies are built in light brown bricks. The main contractors was A. E. Jukes and Son Ltd. For list of sub-contractors see page 598.

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

DIMMING FLUORESCENT

With normal circuits it is impossible to dim fluorescent lighting over a range large enough to be of any practical use for theatre or cinema work. Thorn Electrical Industries, however, have evolved a modification of their Atlas Quickstart circuit which allows a dimming range of 300 to 1 or more, and this is apparently as much as is needed. In the normal Quickstart circuit the filaments are heated by a transformer whose primary is connected across the lamp. When the current is switched on the filaments are rapidly heated, but when the lamp strikes, the volts across the transformer are reduced to about half, and the With normal circuits it is impossible to former are reduced to about half, and the

former are reduced to about half, and the heating current falls. Lowering the voltage of the supply will decrease the light output by about 15 per cent.

In the new circuit the primary of the filament transformer is connected directly to the mains and is entirely separate from the supply to the lamp. This increases the dimming range to a marked extent, so much so that the light from a 5 ft. 80 watt lamp can be reduced to about 4 per cent. The full range of dimming needed for stage lighting is only obtained with lamps whose diameter to length ratio is higher, the best of the present range being the 2 ft. 40 watt types. By using these lamps in pairs, and with a filament transformer having an extra secondary winding for the centre pair of filaments, the range of dimming is still further increased, the minimum light value being about 0.3 per cent.

being about 0.3 per cent.

At a recent demonstration held at the Boltons Theatre, Kensington, the colour lighting and dimming seemed to work extremely well, though it was possible to detect a certain jerkiness in the dimming, perhaps due to an incorrect choice of the steps in the resistances. From many points of view fluorescent lighting has many advantages for theatre work. Fire risk is very much less as the tubes run at from 50° to 60° C., whereas tungsten lamps 50° to 60° C., whereas tungsten lamps reach temperatures which are dangerous for drapes. Current consumption is very much lower; tungsten lamps need filters which cut light emission down to somewhere from 6 to 7 lumens per watt, whereas the fluorescent tube embodies the colour in its powder (except for dark reds not yet developed), and output remains at about 40 lumens per watt on the average. Current savings naturally depend on the particular installation concerned, but in one scheme quoted the tungsten lamp load of 80 KW was reduced to 18 and there was also a saving in maximum demand of 58 KVA, the in maximum demand of 58 KVA, the total saving in current charges being something over £600 a year, as against an increase of about 20 per cent. in the cost of control gear.

So far as auditorium lighting is concerned, the dimming requirements are very much less stringent, and 80 watt tubes can be

satisfactorily used. (Thorn Electrical Industries, Ltd., 105/109, Judd Street, London, W.C.1.)

INSULATING MATERIALS

Formed in 1946, with the active encouragement of the Ministry of Fuel and Power, the Structural Insulation Association consists of manufacturers and importers of two useful leaflets, the first cataloguing the various materials available, and giving a description of the material itself, its weight per cubic foot, conductivity, how supplied (i.e., in rolls, sheets or in bulk), and the standard sizes and thicknesses. The other leaflet is equally useful, as it gives a series of typical constructions for walls, floors or seef which the LL values for each. These roofs, with the U. values for each. These are all based on traditional methods of construction, since the large number of nontraditional types would make the list un-wieldy, and, furthermore, all such con-structions are normally subjected to special scrutiny to make certain that they reach a proper standard of insulation before approval is given for development. official approval is given for development. As a ready reference these leaflets are both useful, the second would be improved if it were possible to give some indication of the relative costs of the various alternatives offered. (Structural Insulation Association, National House, 14, Moorgate, London, E.C.2.)

FIGURED ROLLED GLASSES

It is now some time since any new patterns were introduced in the figured rolled glasses. Three new types just announced by Pilkingtons are Cross Flexon, giving a diffuse light transmission of 84 per cent. with a moderate degree of obscuration. Patterns are never degree of obscuration. Patterns are never easy to describe—Cross Flexon might be described as a series of pyramids arranged in wavy lines. Borealis has a transmission of 70 per cent., with a high degree of diffusion and obscuration, and is illustrated below. Argent has much the same pattern with chevrons superimposed; transmission is 75 per cent., with slightly less obscuration than Borealis. (Pilkington Brothers, Ltd. St. Helens, Lancs) Ltd., St. Helens, Lancs.)

GAS RADIATORS

The photograph on this page shows Harpers No. 3161 convector heater, shown at the BIF last month. The gas supply is governed, and cannot exceed 18 cubic feet an hour. Internally there is a baffle (vitreous enamelled against corrosion) which keeps the casing cool and at the same time helps to prevent the wall from becoming discoloured. (John Harper & Co., Ltd., Albion Works, Willenhall, Staffs.)

PRESTRESSED CONCRETE

The Cement and Concrete Association has The Cement and Concrete Association has just issued a booklet on Prestressed Concrete which consists of a précis of a lecture by Dr. K. W. Mautner and a report on a visit to France by members of the Association staff in May of last year. This gives a brief account of some of the prestressed concrete work carried out in gives a brief account of some of the pre-stressed concrete work carried out in France by the Société Technique pour l'Utilisation de la Précontrainte (S.T.U.P.). The range of structures already carried out includes arch and beam bridges, reservoirs and dams, as well as many precast products such as railway sleepers and telegraph roles

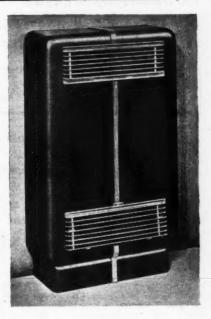
The main conclusions of the tour may be

roughly summarized as follows:

Prestressed concrete is now a widely used and generally accepted method of construction in France, and can be used for structure in the construction in France, and can be used for structure in the construction in France, and can be used for structure in the construction in France, and can be used for structure in the construction in France, and can be used for structure in the construction in France, and can be used for structure in the construction in the construction

tures which it would not be practicable to build in ordinary reinforced concrete.

Savings of 60 to 70 per cent. in steel and 20 to 30 per cent. in concrete can be achieved.



The Harper convector gas radiator, designed to burn town or bottled gas. Consumption is 18 cu. ft an hour, and there is an internal baffle to keep the case cool and to reduce the discoloration of walls.

The Freyssinet wire tensioning methods considerably extend the range of buildings for which prestressed concrete is suitable. The methods of construction used are simple and require little labour, and the structures should be durable owing to the high quality concrete and the absence of reinforcing bars near the surface. In all major work very careful detail

design and close supervision are essential. Concrete strengths of 5,000 to 6,000 lb. per sq. in. are required, and need careful control. (The Cement and Concrete Association, Ltd., 52, Grosvenor Gardens, London, S.W.1.)



A new pattern for figured rolled glass, by Pilkington Brothers Limited.

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

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

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2.84 planning: general LIBRARY PLANNING DATA

Sizes of Libraries. J. Vulliamy. (APRR Information Bulletin, April, 1949, Reference

Sheet No. 20, p. 4.)
Useful factual information of interest to

Useful factual information of interest to planners on sizes and siting of public libraries related to population figures. The article, which is based on recent recommendations made by the Library Association, first discusses the distribution of libraries. A public library should be within 14 miles, or 20 minutes' walk, or a 24d. bus ride, of every inhabitant, and should preferably be near a shopping centre. In towns with a population of up to 50,000, there is normally no need to establish branch libraries, with certain specified exceptions. Otherwise branches are desirable to serve 30,000 to 40,000 inhabitants. Figures for site areas to be reserved for a branch library are provided covering a population range from 2,000 to 50,000. 50.000.

50,000.

The site area should allow for approximately 21 feet of open space on all sides of the building. Actual building areas for each 10,000 of population should cover 600 square yards for central, and 330 square yards for branch libraries. Based on these figures a table is given specifying building and site areas for branch and central libraries for populations between 10,000 and 50,000.

50,000.

Next the author discusses siting in relation to civic and social centres. He draws attention to the disadvantages of combining library services with other social activities. Allowance should be made for library growth in relation to optimum population figures, especially in the case of new and expanding towns.

Finally there are some extracts of information from various sources on library

formation from various sources on library

facilities, referring in particular to the regional library scheme of the Tennessee Valley Authority, USA.

2.85 planning: general U.N. PLANNING JOURNAL

Housing and Town and Country Planning. (United Nations, New York, USA, Bulletin No. 1, Nov., 1948. Obtainable from HMSO, 7s. 6d.)

First number of comprehensive international housing and planning journal (in English throughout) issued by United Nations' Department of Social Affairs. Illustrated. Bibliographies.

In a foreword it is stated that the new periodical aims at disseminating information on "significant developments of a technological, legislative, sociological and economic character in all parts of the world. Attention will also be drawn to studies and publications of particular value in the various fields." Accordingly special articles in this first issue are concerned with problems in the war-devastated areas of Asia and the Far East, the deficit of dwellings in post-war Europe, village and town planning in India, the relation of

general planning to housing and town and country planning in Great Britain, and housing and planning in Sweden. Techno-logical aspects covered include emergency construction and new techniques in Poland, and a description of American experimental honeycomb-core sandwich panels for housand a description of American experimental honeycomb-core sandwich panels for housing. There are two full-length book reviews by specialists, the one on an American Manual on Wood Construction for Prefabricated Houses, the other on Planning the Neighbourhood (see 10.38:7.10.48). A useful feature of articles and reviews is a short annotation of their contents immediately following the title. News items include a review of international organizations concerned with housing, a summary of proceedings at the Zurich Congress of the International Federation for Housing and Town Planning, and a note on an Institute of Building Research in Denmark.

Lastly there is an annotated international bibliography covering the relevant subjects (printed on one side only to allow for cutting and pasting on index cards), and also a list of periodicals giving publishers addresses, subscription rates, frequency of

and a list of periodicals giving publishers addresses, subscription rates, frequency of issue, and language. It is interesting to note that none of the items published in the new periodical carries a subject classification number.

4.50 planning: urban and rural **NEW TOWNS: PROGRESS REPORTS**

New Towns Act, 1946: Reports of the Aycliffe, Crawley, Harlow, Hemel Hemp-Ayctiffe, Crawley, Harlow, Hemel Hemp-stead and Stevenage Development Corpora-tions for the Period ending March 31, 1948, House of Commons Paper No. 113. (HMSO, 1949. 1s. 6d.)

Foreword by Minister of Town and Country Planning followed by self-contained reports of each of the five Develop-



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ment Corporations. Illustrated by planning maps for Crawley and Harlow.

Each of these reports provides information on the establishment and administration of the Corporations and their staffs, the characteristics of the Designation Area of the new town, particulars relating to planning consultants and master plans, development programmes and progress concerning housing and public services, together with problems encountered, and final revenue accounts and balance sheets. All the reports carry notes on the extent and state of the Corporation's public relations.

12.32 materials: metals CORROSION

The Protection of Metals against Corrosion. T. P. Hoar. (RIBA Journal, April, 1949. pp. 276-281.)

General survey of present techniques of preventing the corrosion of metals in building. Gives a very clear picture of the process of corrosion with useful recommendations for the treatment of a number of different metals. A really useful paper that is worth reading and keeping for reference. Some of the main points discussed are as follows:—

(a) Protection of metal by its own

corrosion;
(b) The fact that some metals are more easily corrodible than others:

corrodible than others;
(c) The effect of placing an easily corrodible metal in contact with one that is less easily corrodible.

2. Protection of steel:—

(a) The normal methods of preparing steel for subsequent paint treatment;
(b) The role of the "inhibitive" primer;
(c) The character of subsequent paint

(c) The character of subsequent paint coats;
(d) Less common preparatory bases for

(d) Less common preparatory bases for subsequent paint treatment, including acid metallic phosphates, tin, zinc, aluminium, oil coatings;

(e) Vitreous enamelling;

(f) Steel in reinforced concrete.
3. The behaviour of metal roofing material.

4. The behaviour of metals used as damp proof courses.

5. Corrosion in plumbing systems.
6. Corrosion of fittings, including window frames, etc.

frames, etc.
7. The effect of atmospheric conditions.
The report also gives an account of the comments made during the discussion of the

paper, and the author's replies.

Concerning the protection of structional steel, the author lays the responsibility upon architects and engineers to insist upon proper treatment at the steel works, and this point is of considerable importance.

There is, unfortunately, no very definite information given as to the durability of aluminium when left unpainted: a subject which is of particular interest at the moment.

17.53 construction: general DETERIORATION OF CONCRETE

The Deterioration of Concrete in Structures. F. J. Lea and N. Davey. (J. of the Institution of Civil Engineers, May, 1949. pp. 248-295.)

Internal and external causes of deterioration. Notes on repair. Bibliography and discussion.

The paper describes the most frequent causes of deterioration of concrete and preventive measures to avoid or remedy damage. The causes may be internal—i.e., unsuitable aggregate or cement, too much or impure water used in the mix—or external. Among the external causes the paper deals

with frost attack and corrosion of the reinforcement, erosion by water, chemical effect of sea-water, particularly at positions just above water level, sulphate-bearing ground water, acid gases, atmosphere attack, fire. Suggestions are made for the treatment of cracks, patching of small areas of concrete, bonding new concrete to old. The paper is illustrated by good examples.

18.28 construction: theory REINFORCED CONCRETE

Reinforced Concrete. The New Builders' Handbook No. 5. Newman Tate. (George Allen & Unwin Ltd. 1948. 5s. net.)

Elementary book on the design of simple reinforced concrete structures.

The book is intended for the use of students and young practical builders with little theoretical knowledge. It is written in simple language, and mathematics have been kept within elementary limits.

The stresses adopted in the examples are based on the old Code. Some of the illustrations are misleading; e.g., it is not good practice to arrange the reinforcement in fixed end and continuous beams as shown on Figs. 7, 8, 9, i.e., to have no reinforcement at all in the bottom beyond the assumed points of contra-flexure.

20.132 construction: complete structures PRESTRESSED R.C. TANKS

Les Procédés "Preload" pour l'Exécution d'Enveloppes Cylindriques en Béton Précontraint ("Preload" system for cylindrical structures in pre-stressed concrete). J. Bouveroulle. (La Technique des Travaux [Belgium]. Jan.-Feb., 1949. pp. 17-26.

Description of the "Preload" system for pre-stressed cylindrical structures (see Inf. Centre No. 1457: 20.4.44 and 20.39: 9.10.47). Advantages in comparison with ordinary reinforced concrete. Applications to large reservoirs and petrol tanks. Maximum diameter so far carried out: 180 ft.

20.133 construction: complete structures SHELL CONCRETE ROOFS

Les Voutes Minces en Béton aux Pays-Bas (Shell concrete structures in Holland). (La Technique des Travaux [Belgium]. March-April, 1949. pp. 101-110).

Examples of shell concrete roofs in Holland.

The article describes several applications of cylindrical shell roofs in industrial buildings and their method of construction. A

few of the buildings illustrated are of the north-light type. One factory, covering an area of 9,000 sq. yds., was subjected to severe bombing during the war. Altogether 200 holes were punched through the shell roof, some of them having a diameter of 13 ft. All the damage could be repaired without excessive cost.

The article emphasizes the importance of repetition of the same unit from the point of view of economy.

20.134 construction: complete structures LOCO-SHED: SHELL CONCRETE

Les Remises et Ateliers du Dépot du Locomotives de Chalons-sur-Marne (Loco-shed at Chalons-sur-Marne). R. Bernis. (La Technique des Travaux [Belgium]. Jan.-Feb., 1949. pp. 9-16.)

Thin shell reinforced concrete structure covering an area of 20,000 sq. yds.

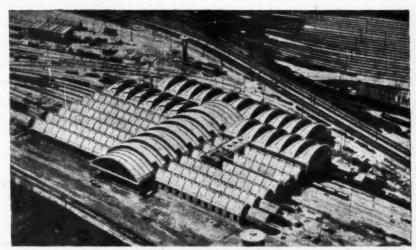
The building consists of a central hall flanked by a rectangular building on either side. The central hall has a span of 115 ft. and is covered by an arched rib shell of parabolic shape with suspended ties. It is provided with lantern lights with vertical glazing, running at right angles to its longitudinal axis. One part of the other buildings, where not much light is needed, is also covered by parabolic shell roofs. The other parts, where better lighting is required, are roofed by shells of conoid shape, supported on parabolic arcs of 81 ft. span at 31 ft. centres. This form of construction allows the arrangement of vertical glazing. The whole building is supported on 625 piles of 33 to 50 ft. length.

20.135 construction: complete structures NATIVE HOUSES S.A.

Native Houses at Klipspruit, South Africa, for the Johannesburg City Council. (The Builder, April 29, 1949, pp. 527-8.)

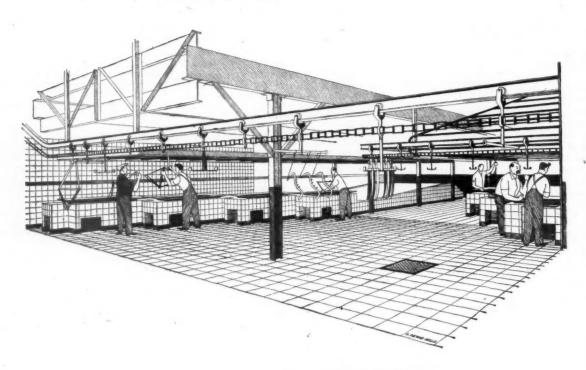
1,700 blocks, each of three family units, providing 5,100 homes at a cost of about £2,000,000.

The blocks are single storey buildings. The walls are precast in no fines concrete with a ½-in, layer of sand and cement either side, the external walls being 8 in., the internal walls 4 in, thick. Window frames are cast in the concrete. The walls, after five days' curing, are erected by a gantry. When erected they are joined together by concrete columns cast in situ and are tied by reinforcement projecting from the walls. The roof is a 2 in. thick reinforced concrete shell cast in situ. Reinforcement consists of welded steel fabric.



Aerial view of loco-sheds at Chalons-sur-Marne. (See 20.134)

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GOVERNMENT AND BUILDING

By Ian Bowen

The relationship between the Government and the building industry is entirely different in 1949 from what it was in 1939. There are, of course, more controls in force, such as building licensing and the registration of firms under Regulation 56 AB; and there is the official housing policy being pursued by the Ministry of Health and the Department of Health for Scotland. But these are not the only changes, and more may perhaps result from any policies suggested by the Working Party now sitting. Some of the present complex responsibilities of the Government in respect of building are indicated in the Summary Report of the Ministry of Works for the year 1948 (Cmd. 7698), published this month.

LICENSING AND REGISTRATION

The report states that despite the substantial increases in the financial limits for unlicensed work some 300,000 individual applications for licences were dealt with by the licensing officers of the Ministry, while officers of the Local Authorities issued for housing work (other than erection of new houses) 757,000 more—and presumably "dealt with" an even larger figure. Thus well over one million applications must have been handled by the Ministry and the Local Authorities taken together.

Some 516 prosecutions were brought during

some 516 prosecutions were brought during the year, so that the prosecution rate per licence dealt with was less than 0.05 per cent. This suggests either that builders and their clients are remarkably law abding, and totally above such mundane temptations as fiddling or black marketeering may offer, or that licences are now granted so freely as to be almost redundant, or that enforcement is practically impossible. It is difficult to know how much weight to give each of these possible interpretations.

The facts need to be looked at further in the light of the registration figures. During the year 1948, 22,352 new (or "revised") undertakings were registered, but the net increase in active firms was only about 2,500 over the year; thus nearly 20,000 firms went out of business or ceased to operate. As at November, 1948, there were 50,138 firms with "nil" operatives, and 45,113 with up to 5 operatives. Apart from these firms there were 27,555 active firms with an overall average employment per firm of some 32 operatives.

Registration produces statistics from which the nature of the problem can be seen. Licensing of work is at present the chosen method of controlling the volume and nature of the projects undertaken. But the vast number of little firms must be all but impossible to fit into any programme; the administrative cost, in its widest sense—that is including the cost and frustration incurred by builders and their clients, as well as the direct cost to the state—may well be out of proportion to the effective control achieved. At the same time, the need for some kind of control seems to be as unquestionable now as it was in 1945 and 1946. The general economic situation of the country at least up to 1952, and probably beyond that date, demands that the resources going into building should be limited, and also carefully utilized. It is much easier to point out the deficiencies of the licensing system than to suggest an alternative, although as the pro-

gramme develops, and the underlying supply position changes, it becomes more and more apparent that an alteration should be devised. This can only be worked out in terms of a Government machinery that has been carefully constructed for the specialized purpose of seeing that certain work is done, instead of being mainly concerned with preventing work being done, even if that was a necessary negative function in the immediate post-war period.

THE LABOUR FORCE

When in doubt about the capital programme, cut new housing. That is one of the maxims dearest to amateur students of the building situation. The outlook on new housing, like the anxiety about the number of bricks laid by bricklayers, is possibly popular because houses, like bricks, are easily counted; the other parts of the building programme ought to be equally liable to be axed in times of crisis, but never are, partly because of the difficulty in enumerating them under any logical headings.

ing them under any logical headings. The Ministry of Works report mentions that the labour force engaged on new housing fell from 320,000 in December, 1947, to 264,000 in December, 1948; it now must stand at about 215,000; The total labour force engaged on building of all kinds has

force engaged on building of all kinds has not fallen correspondingly.

The Economic Survey for 1949 (Cmd. 7647) suggested an enormous increase in new work other than housing in 1949, but, as was argued in a previous article, the targets there set were almost certainly too high to be realized. The Ministry of Works' Report points out that vacancies notified by building and civil engineering contractors at the labour exchanges had fallen to 24,510 by the end of December, 1948, from a high figure of 86,410 in June, 1947. With such a low demand a very rapid build-up of labour on the non-housing programme is unlikely to be achieved.

To sum up, while the programmes now scheduled for schools, agricultural and industrial buildings, and so on, will be steadily built up in 1949, this will take place at a slower rate than planned. Meanwhile, labour is likely to continue being released from housing, at any rate for another few months. Licensing will be persisted in (at great cost), in the absence of an alternative, but it will tend to be rather ineffective as labour and materials will not be in very short supply.

GOVERNMENT AND THE INDUSTRY

Several standing committees now link the Government with the industry. Four of them are (1) the Building and Civil Engineering Joint Committee, (2) the Advisory Committee on Contractors' Plant, (3) the Building Industry Production Sub-Committee, and (4) the Advisory Committee of Specialists and Sub-contractors. In addition there is the National Consultative Council of the Building and Civil Engineering Industries which considered in 1948 such high policy matters as the capital programme, the supply and distribution of building materials and land clearance in the Development Areas. The machinery of full mutual consultation thus seems to be established. But the state of licensing and registration of small firms does not confirm that a successful policy has yet been settled, or implemented.

Perhaps the most interesting developments mentioned in the Ministry's reports are those relating to research. An Advisory Service for the Building Industry was started experimentally in 1945 with headquarters in Cambridge. Its aim is to assist in bringing the results of research and development to the wider knowledge of the industry and of the professions associated with it. This is an experiment of great importance, and its progress should be closely studied.

The Government has continued to publish reports on building techniques (such as Special Report No. 4 of the National Building Studies, on "New Methods of House Construction"), and to carry out experiments on selected building plant and new materials. The Ministry of Works has collaborated with the Ministry of Fuel and Power on the development of appliances for domestic heating, and encouraged researchelsewhere on "human requirements" as deduced from living conditions in experimental houses. There is not the slightest doubt that this ferment of officially encouraged research activity has produced results, and is still producing results, that put British building techniques well ahead of those in any other country.

It is all the more to be wondered at that

It is all the more to be wondered at that an equally serious approach is not made to the economic aspect of the problems involved. As long as the industry itself has only a few large efficient firms and a long "tail" to go in and bat with inadequate coaching, the cost problem will vitiate further advances. The consumer end of building is not adequately organized. "Human requirements" research will not bring results if effective economic demand is not canalized in some way. This, it is increasingly clear, is the centre of the problem, and whatever Ministry has the responsibility, in the long run the interests of the consumer, including his æsthetic needs, should be the criterion of a successful building policy.

policy.

The Ministry of Works, and the other agencies concerned, have done a wonderful pioneering job in developing research and a machinery of consultation with the industry. What yet remains to be done is to organize the demand for building on more rational lines.

Announcements

Mr. P. S. Barton, who has been with the Benjamin Electric Ltd. for nearly twenty years, and since 1936 has held the position of Southern Area Manager, has relinquished that post in order to take up an appointment as General Sales Manager to Courtney, Pope (Electrical) Ltd. as from June 1.

Roller Shutters Ltd. have changed their address to 241-242, Great Lister Street, Birmingham 7 (tel.: Aston X 2028).

The following hardwoods are now available for import by firms eligible to participate in the Hardwood Overseas Procurement Scheme: White Afara, Limba, Frake, and Offram. These hardwoods come from the Gold Coast, Nigeria, and Cameroons. Timber Control have accordingly deleted them from the H.O.P. Part III Revision of Appendix "A" (5th Revision dated April 21, 1949).

The Stevenage Development Corporation Department of Architecture and Planning, Aston House, Aston, near Stevenage, Herts, will be pleased to receive copies of trade catalogues.

Mr. John H. Bath, L.R.I.B.A., has been appointed chief architect to Messrs. Geo. Adlam & Sons, Limited, General Engineers, Parnall Road. Fishponds, Bristol (tel.: 54211), at which address he will be pleased to receive trade catalogues, particularly relating to heavy industrial buildings.

Mr. Peter Dunham, F.R.I.B.A., chartered architect, has taken Mr. F. Macfarlane Widdup, A.R.I.B.A., and Mr. C. Gurney Burgess, L.R.I.B.A., into partnership. They are now practising under the title of The Peter Dunham Group at 42-44, Hastings Street, Luton, Bedfordshire (tel.: Luton 4482), and would be pleased to receive trade catalogues.

Richard Sheppard & J. Shufflebotham, F./A.R.I.B.A., of 21, Coram Street, W.C.1. have taken into partnership Geoffrey Robson, A.R.I.B.A., and will carry on their practice at the same address under the name of Richard Sheppard & Partners.

Mr. R. W. Johnston, A.R.I.B.A., has commenced practice at "Tomboyach," Boat of Garten, laverness-shire (tel.: 243), where he will be pleased to receive trade catalogues, etc.

Mr. Julian Keyes, A.R.I.B.A., has commenced practice at 10, Manchester Square, W.I. (tel.: Welbeck 6276), and would be pleased to receive trade catalogues, etc.

(tel.: Welbeck 6276), and would be pleased to receive trade catalogues, etc.

Mr. R. Douglas Derham, the regional architect to the South Eastern Regional Hospital Board, Scotland, would be pleased to receive trade literature and catalogues at 6, Cambridge Street, Edinburgh 1.

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Buildings Illustrated

Factory at Ilkeston (pages 585-587). Architect, Harald Weinreich, Dip.Arch., E.P.F., M.Inst.R.A., in collaboration with Cyril F. W. Haseldine, F.R.I.B.A. General contractors: J. W. Stamp & Co. Sub-contractors: Asphalt, Val de Travers Asphalte Paving Co. Ltd.; steel reinforcement, The Square Grip Reinforcement Co. Ltd.; artificial stone, T. C. Campbell, Ltd.; artificial stone, George Sands & Son, Ltd.; roofing felt, D. Anderson & Son, Ltd.; roofing felt, D. Anderson & Son, Ltd.; partitions, Marley Tile Co., Ltd.; glass blocks, Pilkington Bros, Ltd.; glazing, W. Knight, Ltd.; waterproofing materials, The Adamite Co., Ltd., and Sealocrete Products, Ltd.; curral heating, Young, Austen & Young, Ltd.;

sprinklers, The Automatic Sprinkler Co., Ltd.; spiral goods chute, Bernard Noakes, Ltd.; electric wiring, Blackburn Starling & Co., Ltd.; sanitary fittings, John Bolding & Sons, Ltd.; door furniture, Comyn Ching, Ltd.; casements, The Morris Singer Co.; plaster, W. A. Telling, Ltd.; paint suppliers, Ferguson Edwards, Ltd.; painting, Norman F. Potter; joinery, Stamp & Co.; garden work, J. Buxton & Son; lifts, Evans Lifts, Ltd.

Factory at Congleton (pages 588-591). Architect: Rudolf Frankel. General Contractors: R. John Addison, Ltd. Barrel vault roofing, J. Bradford & Co. Ltd.; windows, doors and roof glazing, Crittall Manufacturing Co. Ltd.; heating and hot water, Burns; metal screens, John Williams & Sons (Cardiff), Ltd.; flat roof, "Myko" Bath and Portland Stone Firms, Ltd.; paving, Val de Travers Asphalte Paving Co. Ltd.; ironmongery, A. J. Burns; sanitary fittings, Bolding & Sons Ltd.; steel reinforcement, Twisteel Co. Ltd.

Flats at Banister Court, Southampton (page-592). Architects, W. H. Saunders & Son. General contractors: A. E. Jukes & Son. Ltd. Sub-contractors: Reinforced concrete, Frazzi-Ltd.; bricks, Erith & Co. Ltd.; structural steel, Redpath, Brown & Co.; special roofings, Limmer & Trinidad Lake Asphalte; glass, E. R. Wright & Son; woodblock flooring, Floorwoods, Ltd.; patent flooring, Leatherflor, Ltd.; gas fixtures, Ascot Gas Water Heaters, Ltd.; gasfitting, The Southampton Gas Light & Coke Co.; electric wiring, H. C. Taplin & Sons; electric heating, Thermovent Heaters by E. K. Cole, Ltd.; sanitary fittings, W. Dibben & Sons, Ltd.; casements, Crittall Manufacturing Co. Ltd.; metalwork, B. Finch & Co. Ltd.; wallpapers, Arthur Sanderson & Sons, Ltd.; shrubs and trees, G. S. Daniels; glasscrete construction, J. A. King & Co. Ltd.

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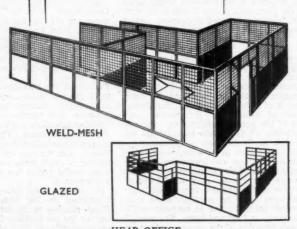
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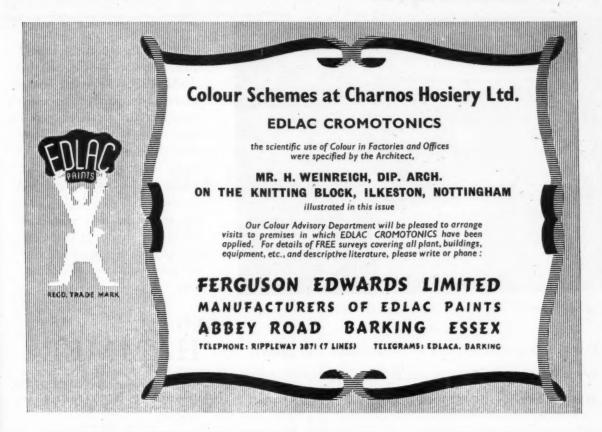
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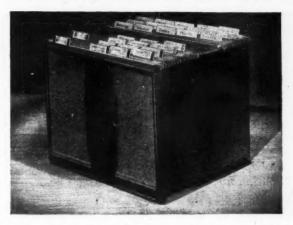
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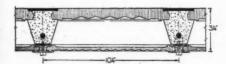
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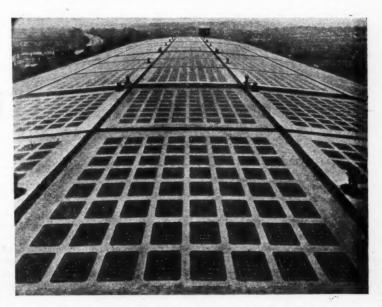
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by C. G. STILLMAN, F.R.I.B.A. and R. CASTLE CLEARY, A.B.I.B.A.

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This book gives a comprehensive account of the architectural and building problems which face educationalists today. The Butler Education Act of 1944 has been revolutionary in its new approach to education, and its score and implications are not yet fully appreciated in many! respensible quarters. The Medean School surveys the whole field beginning with the historical tackground and ending with a chapter on modern constructional design; it examines the contemporary architectural problem in relation to the Education Act and deals with each special aspect of school design in detail, so that questions of siting, classroom accommodation, specialist rooms (e.g. laboratories and music rooms), school kitchens, gymnasia and playing fields are each covered in turn. It is a book designed to be of value to all education officers and local education authorities as well as to practising architects.

The book contains 152 pages including about 120 photographs and plans. Its size is 9\frac{1}{4} in. by 7\frac{1}{4} in., and it is bound in cloth.

Twenty-one shillings, postage ninepence.

THE ARCHITECTURAL PRESS

9-13 Queen Anne's Gate, S.W.1.

A new reference book for the Planner

THE

PLANNER'S NOTEBOOK

A compendium of information on town and country planning and related subjects

Edited by H. MYLES WRIGHT, M.A., A.R.I.B.A.

This is the first comprehensive planner's reference book. It contains in a single easily handled volume a mass of detailed and thoroughly indexed information which has hitherto been obtainable only by consulting a large number of separate publications. Over 270 excerpts from, or summaries of, published books, reports, tables, pamphlets and articles, explain the aims, policy and legislative and factual background of planning in general. It gives quickly the answers to the multitude of questions constantly confronting the planning officer and all those concerned with town and country planning.

The book is demy-octavo in size, and has 390 pages. Besides the text-matter, there are over 130 tables, and an index.

Price: 30s. net. Postage 9d.

THE ARCHITECTURAL PRESS, 9-13, Queen Anne's Gate, Westminster, S.W.1

CLASSIFIED ADVERTISEMENTS

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

yaper.
Replies to Boz Numbers should be addressed care of "The Architects' Journal," at the address dere of The architects southers as the consequence of the Available only to applicants excepted from the Control of Engagement Order, 1947.

Public and Official Announcements

Public and Official Announcements

21s. per inch; each additional line, 2s.

The Incorporated Association of Architects and Surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: Employment Register, Wenn Park, Wenners, Editioners of Architects and private practitioners having staff vacancies. Address: Employment Register, Wenn Park, Wenners, Editioners of (i) Architects. Louding os35. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) Architects. Lalaries up to £700 a year) and (ii) Architectural Assistants (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake 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. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269)

BOROUGH OF WHITEHAVEN.

required, and quote Ref. G.R.5). Canvassing qualifies: (2269)

BOROUGH OF WHITEHAVEN.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Borough Surveyor's Department.

Applicants must be Members of the Royal Institute of British Architects, and should have had experience in housing and general building works as carried out by a local authority. Experience in taking off and billing quantities will be an advantage.

The salary will be in accordance with A.P.T.. Grade IV, of the National Scales (£480 to £525 per annum).

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be addressed to the undersigned not later than Friday, the 1st July, 1949.

A house will be available for the successful applicant.

A. D. VICKERMAN, Town Clerk.

Town Hall, Whitehaven. 13th June, 1949.

Town Hall, Whitehaven.

13th June, 1949.

13th June, 1949.

13RAN DISTRICT COUNCIL OF HAYES AND HARLINGTON.

ENGINEER AND SURVEYOR'S

DEPARTMENT.

Applications are invited from suitably experienced persons regularly trained as Architects. for the appointment of Temporary SENIOR ARCHITECTURAL ASSISTANT (two vacancies), on Grade A.P.T., VI (present inclusive salary £625, rising to a maximum of £690).

The appointments will be in the Architectural Section under the Architect. A considerable housing programme to include flats, maisonettes, shops with living accommodation, as well as two-storied dwelling houses is at present in hand and proposed. Schemes of general building are desired for execution when circumstances permit. Should the same be required, the Council may be able to assist the successful applicants in obtaining housing accommodation.

Applications, on forms which can be obtained, together with the Conditions of the Appointments, on receipt of a stamped-addressed envelope from the Engineer and Surveyor, at the Town Hall, Hayes, Middlesex, should be returned to him duly completed not later than 11th July. 1949.

Town Hall, Hayes, Middx.

20th June, 1949.

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Town Hall, Hayes, Middx. 20th June, 1949.

20th June, 1949.

CITY OF LEICESTER.

Applications are invited for the appointment of a MAINTENANCE ASSISTANT in the City Surveyor's Department. The salary will be in accordance with Grade A.P.T. IV to VI (£480.£660). according to qualifications and experience, and the appointment is subject to the provisions of the Local Government Superannuation Act. 1937. Applicants should have a good knowledge of architectural practice and be experienced in the architectural maintenance of Corporation buildings.

Applications, including age, qualifications and experience, together with copies of testimonials, should reach the undersigned not later than 9th July.

JOHN L. BECKETT, M.I.C. B.

JOHN L. BECKETT, M.I.C.E., City Surveyor. 1383 Town Hall, Leicester.

HIS MAJESTY'S COLONIAL SERVICE.

A vacancy exists for an ARCHITECT in the Public Works Department, Hong Kong. Salary in the scale \$1,046 to \$1,230 per month, inclusive of expatriation pay (sterling equivalent: £785 to £1,365 per annum).

Candidates should be physically fit, British subjects, and between 25 and 45 years of age. They must be Associates of the Royal Institute of British Architects, preferably possessing a University degree in architecture, and should have had at least 5 years' practical experience. The successful candidate will be required to prepare designs, sketch plans and working drawings for Government buildings, and to supervise their erection and the carrying out of contracts in connection with Government building. Terms of service include a temporary and nonpensionable cost-of-living allowance, which for a married officer without children so per cent. of the standard allowance is payable, and for an unmarried officer of per cent. Government quarters are provided if available at a rent of not more than one-seventh of the basic salary. Free 1st class passages are provided for the officer, his wife and family, on first appointment, and on leave after normal tours of 4 years. Leave on full pay at the rate of one day for every week of resident service. The appointment is on agreement for 3 years in the first instance, with prospects of permanent and pensionable employment thereafter.

Intending candidates should write at once for further particulars and forms of application to the Director of Recruitment, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting reference No. 27301/37. 1239

CITY OF WAKEFIELD.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of a Senior Architectural Assistant, at a salary within Grade A.P.T., VI £595-£560. The commencing salary will be fixed in the light of the successful applicant's qualifications.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to their knowledge they are

Town Clerk.

1301

THURROCK URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S
DEPARTMENT.

ARCHITECTURAL ASSISTANT. GRADE III.
A vacancy occurs in the Council's Architectural Staff for an Assistant on Grade III of the A.P.T.
Division of the National Scale of Salaries, vis., 2450×£15-£495 per annum.

General architectural experience is necessary, and previous success in some part or parts of the Examination leading to the qualification A.R.I.B.A. will be an advantage.

The Council will provide housing accommodation. if required, to the successful candidate residing more than 20 miles from Thurrock Urban District.

The appointment is subject to the provisions of

resuming more than 20 miles from Thantock Chean District.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and it will be necessary for the selected candidate to pass a medical examination.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, endorsed "Architectural Assistant III," should reach the undersigned not later than 1st post on Tuesday. 5th July. 1949.

Canvassing will disquality, and applicants must disclose, in writing any relationship to any member or Senior Officer of the Council.

A E POOLE

A. E. POOLE,
Council Offices. Whitehall Lane, Grays.

APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the permanent appointment of an ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Depart-

ment.
Salary on Grade IV of the National Scale, £480 per annum, rising subject to satisfactory service to £525 per annum.
Preference will be given to those holding an appropriate professional qualification, and applicants must have had good experience in architectural design and construction.
The appointment will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.
Applications on the prescribed form must be returned to me not later than Friday, 3th July, 1949, endorsed "Assistant Architect."

Assistant Architect.

F. C. SAGE, Assoc.M.Inst.C.E.,
M.Inst.Mun.E.,
Registered Architect, Borough Engineer
and Surveyor.

Town Hall, Watford.

COUNTY BOROUGH OF BARROW-INFURNESS.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
AMENDED ADVERTISEMENT.
Applications are invited for the following permanent appointments:—
(a) SENIOR ASSISTANT ARCHITECT. Grade
VII. £635-£710 p.a.

£635-£710 p.a. ASSISTANT ARCHITECT. Grade VI, £595p.a. ASSISTANT ARCHITECT. Grade III, £450p.a. BUILDING SURVEYOR. Grade Va, £550-

P.a. QUANTITY SURVEYOR. Grade VI, £595-2660 p.a. Candidates for post (a) must be Associates of the R.I.B.A.

2660 p.a.

Candidates for post (a) must be Associates of the R.I.B.A.

For other posts the possession of a recognized professional qualification will be an advantage. The Council has accepted the principle of providing HOUSING ACCOMMODATION.

The appointments will be subject to: (1) The National Scheme of Conditions of Service; (2) the provisions of the Local Government Superannuation Act, 1937; (3) termination by one month's notice on either side; (4) the successful candidate passing a medical examination, and (5) becoming a member of the appropriate Trade Union.

Further details of the posts and forms of application may be obtained from the Borough Engineer and Surveyor, to whom completed applications must be returned not later than Saturday, 9th July, 1949.

Canvassing in any form will disqualify.

Town Clerk.

LONDON ELECTRICITY BOARD.

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architects Section of the Chief Engineer's Department in Central London.

(a) ASSISTANT ARCHITECTS. Commencing salary will be from £650 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications and should have had good general experience in design and construction.

(b) ARCHITECTURA ASSISTANTS. Commencing salary will be from £500 per annum dependent upon qualifications and experience. Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an Architect's office.

(c) DRAUGHYSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.

The salaries for the above post are provisional and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice.

CHESHIER COUNTY COUNCIL.

EC.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice.

CHESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF PLANNING STAFF.
Applications are invited for the following appointments, which are on the permanent establishment of my department.
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 County Planning Officer and, in the case of area appointments, under the direction of the Area Planning Officer, in the preparation of a development under the Town and Country Planning Act, 1947. ASSISTANT. Headmarters Bridgegate House, Lower Bridge Street, Chester. Salary A.P.T.. V-YI (£520-£660).
Applicants should be Corporate Members of the Town Planning Institute, and preference will be given to those possessing additional recognized qualifications in architecture or engineering. They must also have had considerable experience in all aspects of statutory planning, development control, and planning procedure.

(b) PLANNING ASSISTANTS. Salary A.P.T., III-IV (£460-£252).
Applicants for these positions should have had some training in architecture and are experienced in town and country planning.
The successful applicants will be stationed at Chester and Altrincham, and applications should indicate 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, 30th July. 1949.
KENNETH O. MALE.
County Planning Officer.
The states of the receipt of completed applications is Saturday, 30th July. 1949.
KENNETH O. MALE.
County Planning Officer.

LONDON ELECTRICITY BOARD,
Applications are invited for the following
ppointment in the Architect's Section of the
hief Engineer's Department in Central QUANTITY SURVEYOR. Commencing salary will be from £700 per appure

London:—QUANTITY SURVEYOR. Commencing salary will be from £700 per annum.

Applicants should preferably be Chartered Quantity Surveyors, and have had considerable experience in a Quantity Surveyor's office.

Applicants should be competent to take responsibility for the preparation of Bills of Quantities, Estimates, Measurement of Works on site, preparation of Interim Certificates and checking of final accounts.

The salary for the above post is provisional and the salary and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidate will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Brood Street, London, Electricity Board, 46/47, New Brood Street, London, Electricity Board, 46/47, New Brood Street, London to this notice.

LONDON COUNTY COUNCIL.

OUANTITY SIRVEYORS.

E.C.2 to whom they should be returned, duly completed, within fourteen days of the publication of this notice.

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at an exist of up to £700 a year, the commencing alary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, ofc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.I (a stamped addressed foolscap envelope required), quoting Q.S.I.

Canvassing disqualifies. (2140)

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VACANCIES FOR ARCHITECTS (GRADE III)

AND TECHNICAL ASSISTANTS IN THE Applications are invited for the following vacancies in the Architect's Department:—

ARCHITECT, Grade III. Salary £550 to £700 a year.

pacancies in the Architect's Department:—
ARCHITECT, Grade III. Salary 2550 to 2700

year.
ARCHITECT, Grade III. Salary 2550 to 2700

year.
TECHNICAL ASSISTANTS (Section (6)).

Salary 2440 to 2580 a year.
TECHNICAL ASSISTANTS (Section (b)).
Up to 167a. 6d. a week.
Required for the preparation of schemes, working drawings, specifications, and estimates for works at schools and other buildings.
Commencing rate according to qualifications and experience. The positions will be temporary in the first instance, and successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and are eligible for permanent appointment and for advancement to higher positions, according to merit Candidates for Grade III positions should possess appropriate professional qualifications.

Application forms may be obtained from the Architect to the Council (AB/P/A), County Hall, Westminster Bridge, London, S.E.I, enclosing stamped addressed foolscap envelope.
Canvassing disqualifies. (535)

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT,

APPOINTMENT OF ARCHITECTURAL STAFF, Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor

(a) CHIFF ARCHITECTURAL ASSISTANT.

A.P.T., VIA.

(b) TWO ARCHITECTURAL ASSISTANTS.

A.P.T., V.VA.

(c) ARCHITECTURAL ASSISTANT. A.P.T.,

In each case the appropriate "London weighting" will be paid. For appointment (a) the commencing salary will be the first step of A.P.T., VII.

For appointments (a) and (b) applicants most

the commencing salary will be the lirst step of A.P.T., VII.

For appointments (a) and (b) applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification. For appointment (c) candidates must at least be in possession of the Intermediate Examination of that Institute.

Forms of application for each appointment may be obtained from the Borough Engineer and Surveyor, and should be returned clearly marked Appointment (a), (b) or (c), as the case may be, to the undersigned not later than 9 a.m. on Monday, 18th July, 1949.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,

GORDON H. TAYLOR

Town Hall, Palmers Green, London, N.13.

22nd June, 1949.

CITY OF COVENTRY.

Applications are invited for the following wholetime appointments on the staff of the City
Architectural Department:—
(a) ONE ASSISTANT ARCHITECT. Salary
on Grade A.P.T., VII, commencing at £635 per
annum and rising to £710 per annum.
(b) ONE ASSISTANT ARCHITECT. Salary on
Grade A.P.T., V. commencing at £520 per annum
and rising to £570 per annum.
(c) ONE ASSISTANT ARCHITECT. Salary on
Grade A.P.T., IV. commencing at £480 per annum
and rising to £525 per annum.
Applicants for (a), "(b) and (c) should be
Associate Members of the Royal Institute of
British Architects, or hold equivalent qualifications.
(d) ONE ASSISTANT ARCHITECT.

1008. (d) ONE ASSISTANT ARCHITECT. Salary on rade A.P.T., III, commencing at £450 per annum nd rising to £495 per annum. Applicants should have passed the Intermediate xamination of the Royal Institute of British

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects.

(c) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum. (f) ONE ARCHITECTURAL DRAUGHTS-MAN. Salary on Grade A.P.T., I, commencing at £330 per annum and rising to £435 per annum. Applicants should be experienced draughtsmen, capable of preparing scale plans of existing buildings. The appointment will be of a duration of not less than two years.

(g) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum. Applicants should be members of the Royal Institute of Chartered Surveyors (Quantities Division), and should have a wide experience of all branches of Quantity Surveying appertaining to the work of a Local Authority.

(h) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £255 per annum.

In certain circumstances, housing accommodation may be made available for the successful applicants in the cases of (a), (b) and (g). Salary increments are subject to satisfactory service.

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1336, and a satisfactory certificate will be required to contribute to the Council's Medical Referee. The successful male applicants will be required to contribute to the Municipal Officers', Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than ten days after the publication of this advertisement.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON.

D. E. E. GIBSON. City Architect.

la, Warwick Row, Coventry. 30th June, 1949.

BOROUGH OF BLYTH.

SENIOR ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of a Senior Architectural Assistant in the Borough Engineer's Department. Salary, Grade V. A.P.T., namely £520.£570 per annum.
Applicants must be Corporate Members of the Royal Institute of British Architects, and have had good experience in Municipal housing work. The appointment is subject to:—
(a) The National Scheme of Conditions of Service:

Service;
(b) the provisions of the Local Government Superannuation Act. 1937, and
(c) the passing of a medical examination.
Applications, suitably endorsed and accompanied by three recent testimonials, must reach the undersigned not later than Monday, 11th July, 1449.

1949, Canvassing will disqualify, and applicants must state whether, to their knowledge, they are related to any member or senior official of the Council.

Housing accommodation will be provided if

EDWIN W. CARTER, Town Clerk.

75, Marine Terrace, Blyth, Northumberland.

Northumberland. 1300
COUNTY BOROUGH OF CROYDON.
SCHOOL ARCHITECT'S SECTION.
Applications are invited for the appointment of a JUNIOR ARCHITECTURAL ASSISTANT.
Salary A.P.T., II, £420×£15—£465 p.a. In addition London weighting of £30 p.a. is paid (£20 p.a. if under 26 years of age). Inter R.I.B.A. standard, with experience in preparing working drawings.
The appointment is established and superannuable, subject to medical examination.
The Council does not offer living accommodation for this appointment.
Forms of application obtainable from the Chief Education Officer, Katharine Street, Croydon (on sending stamped addressed foolscap envelope), must be returned to him not later than the 16th July, 1949.
Canvassing will disqualify.

B. TABERNER.

June, 1949.

fy. E. TABERNER, Town Clerk. 1378

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THE COOPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the Staff of the Manchester Architects' Department:—
TWO SENIOR ASSISTANT ARCHITECTS. Salary range £675-£775 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have had considerable experience either in design and planning of modern factories or large shopping emporiums and retail shops. A high standard of architectural design is expected, in addition to administrative ability and experience.

THEEE ASSISTANT ARCHITECTS. Salary range £510-£625 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have a sound architectural experience in planning and design, and be able to undertake work with a minimum of supervision.

be able to undertake work with a minimum of supervision. THREE ASSISTANT ARCHITECTS. Salary range 2470-2535 per annum. Applicants should have a sound knowledge of building construction and architectural design, and be able to produce working drawings and details, under supervision,

from sketch plans.

THREE ASSISTANT ARCHITECTS. Salary
range £40-£465 per annum. Applicants should be
good draughtsmen, and possess a sound knowledge
of construction and some general architectural

Experience.

The above appointments are permanent, and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.

Applications, stating age, experience and qualifications, to be addressed to:—The Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4.

MANGELIUS, COLINTY, COUNCIL.

HAMPSHIEE COUNTY COUNCIL.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, Grade VII. Salary £55×255-2710 per annum. Candidates must be Registered Architects, preferably A.R.I.B.A., with experience in design and construction of Public Buildings, including schools.

construction of Public Buildings, including schools.

The appointment will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination. In approved cases the County Conneil are prepared to assist newly appointed members of the staff to meet removal and other expenses.

The appointment is terminable by one calendar month's 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 16th July, 1949.

G. A. WHEATLEY,

Clerk of the County Council.

The Castle, Winchester.

The Castle, Winchester. 17th June, 1949.

17th June, 1949.

NEWCASTLE-UPON-TYNE REGIONAL
HOSPITAL BOARD.

ST. NICHOLAS' HOSPITAL, NEWCASTLEUPON-TYNE.

ST. NICHOLAS' HOSPITAL NEWCASTLEThe Board desires to appoint a PRACTISING ARCHITECT or FIRM OF ARCHITECTS for the planning and construction of a new Admission Hospital of 70 beds and two Convalescent Villas, each of 20 beds, at the above Mental Hospital. Applicants should preferably have had experience in the planning and construction of Mental Hospitals. Particulars of the Board's system of administration for architectural projects including, inter alia, committee organization and arrangements for consultation with the appropriate officers of the Hospital Management Committee, and the Regional Hospital Board, may be obtained from the undersigned.

It is hoped to commence building operations early next year.

Applicants are invited to state their special qualifications for undertaking this project (quoting examples of hospital work executed), and to submit their applications not later than 15th July, 1949, to E. B. Jenkins. Secretary, Newcastle-upon-Tyne, 2. E. B. JENKINS.

Secretary.

1375
COUNTY BOROUGH OF DERBY.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff in accordance with the National Scale of Salaries.

ASSISTANT ARCHITECTS, Grade VI. Salary 2596-2560.

Applicants should be Associate R.I.B.A., with a good knowledge of general architect ral work.
The appointments 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 Superanuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from Thos. W. East. F.B.I.B.A., Borough Architect, The Council House, 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, 18th July, 1949.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS.

E. H. NICHOLS, n Clerk IMPERIAL WAR GRAVES COMMISSION. There are vacancies in the Quantity Surveying Branch in London for QUANTITY SURVEYORS with good training and experience as follows:

(a) One post. Salary 2750-21,000 per annum, plus extra duty allowance of 3 per cent. of salary, for 451-hour week. Applicants must be over 35 years of age, and have had pre-war experience in taking off quantities without supervision for buildings of a high architectural standard. Must also be capable of taking complete charge of contracts from their commencement to completion and supervising staff.

contracts from their commencement to completion and supervising staff.

(b) Four posts. Salary 2475-2750 per annum, plus extra duty allowance of 3 per cent. of salary, for 454-hour week. Applicants must have had experience in taking off on good permanent buildings. Pre-war experience an advantage. Applicants should be fellows or Associates of Royal Institution of Chartered Surveyors, or have passed a recognized Final examination, with Quantities as typical subject. In both posts knowledge of stonework an advantage. Starting pay will be assessed according to age, qualifications and experience. Although the above are not established posts, the duration will be not less than five years.

are not estatuseized posses,
Applications should be addressed to Appointments Officer, Imperial War Graves Commission,
Wooburn House, Wooburn Green, High Wycombe,
972

Bucks. 972

DEVON COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF SENIOR PLANNING
ASSISTANT.
Applications are invited for the appointment of Senior Planning Assistant in the South-Western Divisional Planning Office at Plymouth. The person appointed will be required to assist in the preparation and administration of the Development Plan, and to act as Deputy to the Divisional Planning Officer. Candidates must, therefore, have had a wide experience of planning, and preference will be given to those possessing A.M.T.P.I. and/or other recognized qualifications. Salary in accordance with A.P.T. Grade IV or v. of the National Joint Council's Scales (£480-£570).

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of the National Joint Council's Scales (£480-£570).

Applicants will be required to provide a car, for the use of which allowances will be paid in accordance with the National Joint Council's Scale.

The appointment will be subject to the National Joint Council's Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, the passing of a medical examination, and to one month's notice on either side.

Canvassing, directly or indirectly, is prohibited, and cand'dates must state if they are related to any member or senior officer of the Council.

Applications, giving full details of training, qualifications, and experience, together with the names of three persons to whom reference may be made, must be forwarded to the Director of Planning, County Planning Office. Bradninch Hall, Castle Street, Exeter, so as to reach him not later than Saturday, 9th July, 1949. Preference will be given to Registered Disabled Persons, other things being equal.

H. A. DAYIS,

H. A. DAVIS,

Clerk of the Council.

The Castle, Exeter.

15th June, 1949.

EAST ANGLIAN REGIONAL HOSPITAL
BOARD.

Applications are invited for the appointment of
ARCHITECTURAL ASSISTANT (salary Grade
VIII. A.P.T. Division, £585×255-2760) on the
Board's Headquarters 8taff. Candidates abould
be Associate Members of the Royal Institute
of British Architects, with good knowledge of
construction and design and capable of carrying
out large contracts.

The appointment will be subject to the
National Health Service (Superannuation)
Regulations, 1947.

Applications, on forms to be obtained from
the undersigned, should be completed and returned not later than 11th July, 1949.

Toronto Toronto Carry Secretary.

**Toronto Carry

IT. Chesterton Road, Cambridge.

1233

BOROUGH OF KETTERING.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a CHIEF ARCHITECTURAL ASSISTANT in the Borough Surveyor's Department of the Borough of Kettering, at a salary within Grade VII of the APT. Division of the National Scale of Salaries (£635 per annum, rising by annual increments of £25 to £710 per annum).

Applicants must be Registered Architects, and preference will be given to persons who are Associates of the Royal Institute of British Architects. Applicants must have had experience of local authority housing schemes.

The appointment will be subject to the Local Government Superannuation Act, 1337, and to the provisions of the National Scheme of Conditions of Service, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and previous appointments and experience, logether with the names of three referees, must be delivered to the undersigned not later than 20th July, 1949.

D. DUNSFORD PRICE.

D. DUNSFORD PRICE. Town Clerk. Town Clerk's Office, High Street, Kettering. 24th June, 1949.

COUNTY BOROUGH OF WOLVERHAMPTON.
TOWN PLANNING STAFF.
Applications are invited for the appointment of
TWO PLANNING ASSISTANTS, Grade A.P.T.,
III (2450 to 2456 per annum), in the department
of the Borough Engineer.
Applicants should have had good general
planning experience, and preference will be given
to candidates holding an appropriate qualification. The appointment will be subject to the provisions of the Local Government Superannuation
Act, 1937, to the passing of the necessary medical
examination, and to one month's notice on either
side.

examination, and to one month's notice on either side.

The Council cannot undertake to provide housing accommodation, but successful applicants may, if married, qualify for a subsistence allowance until they are able to find accommodation.

Application, with not more than three testimonials or names for reference, should reach the undersigned in suitably endorsed envelopes not later than Saturday, the 16th July, 1949.

J. BROCK ALLON,

Town Hall, Wolverhampton.

Town Clerk.

Town Hall, Wolverhampton.

J. BROCK ALLON,

16th June, 1949.

EAST GRINSTEAD URBAN DISTRICT
COUNCIL.
SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR TECHNICAL ASSISTANT (Housing Section) in the Engineer and Surveyor's Department, the commencing salary to be fixed at a point on the scales of Grades A.P.T., II and III, according to the qualifications and experience of the person appointed. Applicants must possess experience in the work connected with housing schemes, including the preparation of surveys, plans and estimates.

The successful candidate will be required to pass satisfactorily a medical examination, and to contribute under the Local Government Superannation Act, 1337. The appointment will be subject to termination by one month's notice in writing on either side.

Applications, stating age, qualifications, training and experience, accompanied by copies of three recent testimonials, should be received by me the undersigned not later than noon on Monday, the 11th July, 1949, and endorsed "Senior Technical Assistant (Housing)." Applicants must state whether they are related to any member or senior officer of the Council. Canvassing, directly or indirectly, will disqualify.

L. R. BENNETT.

Clerk of the Council.

Council Offices, East Court, East Grinstead. 1371

DURHAM COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Council Offices, East Court, East Grinstead. 1371

DURHAM COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL

ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants, Grade A.P.T., VIII (salary £685 × 225—2760), in accordance with the National Joint Council's Scheme of Conditions of Service.

National Joint Council's Scheme of Conditions of Service.

The persons appointed will be required to pass a medical examination, and the appointments are subject to the Local Government Superannuation Act, 1937, and to the regulations of the County Council relating to sickness for the time being in force.

Canvassing will disqualify, and a candidate who is related to a member or a senior officer of the Council must disclose this fact in his application. Applications, giving particulars of age, experience and qualifications, previous and present appointments, etc., and giving names of three persons to whom reference can be made, should be forwarded to Mr. G. R. Clayton, F.R.I.B.A., County Architect, Court Lane, Durham, not later than 8th July, 1949.

Clerk of the County Council.

Shire Hall, Durham.

than 8th July, 1949.

J. K. HOPE.

Clerk of the County Council.

Shire Hall, Durham.

21st June, 1949.

IMPERIAL WAR GRAVES COMMISSION invite applications to fill vacancies in their London and Wooburn Green offices in the following grades:

ARCHITECTURAL DRAWING OFFICE STAFF.

LEADING ARCHITECTURAL ASSISTANTS.

Candidates should have several years' experience in an Architect's office, preferably have reached at least Intermediate R.I.B.A. or equivalent standard, and be capable of supervising the work of a small team of draughtsmen. Salary within scale £500×220-£625 per annum (men), £425×£15-£500 per annum (women) in London, slightly-less at Wooburn Green.

Candidates should be skilled draughtsmen, capable of preparing half-inch scale working drawings and full size details from the Architect's designs. Salary within scale £300×£20-£525 per annum (men), £300×£15-£460 per annum at age 21 (less below that age), and up to £400 per annum (women) in London, entry at £300 per annum (women) at age 28 or over, slightly less at Wooburn Green.

DRAWING OFFICE ASSISTANT (London only). Candidates should be 18 years of age or over, some previous experience desirable. Salary within scale £175×£10-£250 per annum at age 18 and up to £225 per annum at age 18 and up to £225 per annum at age 23 (scale for women may be extended by annual increments of £10 to £300.)

Applications should be addressed to Appointments Officer, Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Encks.

COUNTY COUNCIL OF INVERNESS.

Applications are invited for the following appointments in the Town Planning Section of the County Architect's Department:—

(a) SENIOR PLANNING ASSISTANT. Salary A.P.T., (2) V. £520 by £15 to £570 per annum. Candidates should possess a recognized architectural qualification, and have had experience in the office of a local planning authority.

(b) TWO JUNIOR ASSISTANTS (SURVEY-ING). Salary A.P.T., (1) B, £360 by £15 to £496 per annum. Candidates should have had training in a planning, architectural, surveying or engineering office.

in a planning, architectarai, but visus, cering office.

The appointments will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, experience, and present position, accompanied by copies of not more than three recent testimonials, should be submitted to the undersigned within ten days of publication of this advertisement.

R. WALLACE,

County Clerk.

County Clerk. 1399

R. WALLACE,
County Buildings, Inverness.

COUNTY BOROUGH OF NORTHAMPTON.
DEPARTMENT OF BOROUGH ARCHITECT
AND TOWN PLANNING OFFICER.
APPOINTMENT OF PLANNING ASSISTANT
(GRADE I), MISCELLANEOUS DIVISION
(£315-£356).

"Applications for the above appointment, stating age, qualifications, experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving the names of two persons to whom reference may be made, should be delivered to J. L. Womersley, A.B.L.B.A., A.M.T.P.L., Borough Architect and Town Planning Officer, not later than 13th July, 199.

Applicants should be good draughtsmen, able to read maps and plans accurately, and interested in the work of presenting town planning survey and proposals in map form. The successful applicant will have every opportunity of gaining experience over the full range of the work of a Planning Department.

Canvassing will disqualify.

C. E. VIVIAN ROWE.

Guildhall, Northampton.

NEW TOWNS ACT. 1946.

BASILDON DEVELOPMENT CORPORATION

NEW TOWNS ACT. 1946.

BASILDON DEVELOPMENT CORPORATION invites applications for the following planning appointments on the staff of the Architect Planner:—

lanner:-(1) SENIOR ARCHITECT PLANNER. Salary

Planner:

(1) SENIOR ARCHITECT PLANNER. Salary range of £1.000-£1,200 p.a.

(2) ARCHITECT PLANNER. Salary range of £250-£100 p.a.

(3) ASSISTANT ARCHITECT. Salary range of £550-£750 p.a.

(4) JUNIOR ASSISTANT ARCHITECT. Salary range of £550-£750 p.a.

(4) JUNIOR ASSISTANT ARCHITECT. Salary range of £300-£400 p.a.

Appointments, which will be superannuable, will be made within the above salary ranges, according to age and experience. The above staff will be required for the preparation of the Master Plan and its subsequent development. Applicants for post (4) should have passed the Intermediate Examination of the R.I.B.A. The officers appointed may be required to work in London for some time.

Applicants for post (4) should have passed the Intermediate Examination of the R.I.B.A. The officers appointed may be required to work in London for some time.

Applications, stating age, training, experience, present post and salary, and the names of two referees, should be sent to the General Manager, Basildon Development Corporation, 11. Growvenor Square, London, W.1. by 13th July, 1949.

COUNTY BOROUGH OF CROYDON.

BOROUGH ENGINEE'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECT.

Applications are invited for this appointment from suitably qualified candidates who have had architectural experience (particularly housing) with a local authority, and have held an appointment as Group Leader.

Salary, Grade A.P.T., VII, £665 per annum, rising to £740 per annum, inclusive of London weighting of £30 per annum. The appointment is pensionable, subject to a medical examination.

The Council will offer housing accommodation if necessary.

The Council will older housing about the from the Borough Engineer, Town Hall, Creydon, and should be returned to him within 14 days from the date this advertisement is published.

Canvassing will disqualify.

E. TABERNER.

Town Clerk.

1409

21st June.

AUCKIAND UNIVERSITY COLLEGE
(UNIVERSITY OF NEW ZEALAND).
Applications are invited for the following positions in the School of Architecture:—
SENIOR LECTURER IN ARCHITECTURAL

DESIGN.
Salary £775-£850 per annum (N.Z.).
LECTURER IN ARCHITECTURE.
Salary £695-\$725 per annum (N.Z.).
TEMPORARY LECTURERS (TWO) IN
ARCHITECTURE.
Salary £625 per annum (N.Z.).
Further particulars and information as to the
method of anolication may be obtained from the
Secretary, Association of Universities of the
British Commonwealth, 5. Gordon Square,
London, W.C.1. The closing date for the receipt
of applications is 31st August, 1949.

Applications are invited for the following appointments to the permanent staff in accordance with the Conditions of Service of the

Applications are invited for the following appointments to the permanent staff in accordance with the Conditions of Service of the National Joint Council:

(a) SENIOR ARCHITECTURAL ASSISTANT.

Salary A.P.T., Grade VI, £955-£660.

(b) ENGINEERING ASSISTANT. Salary A.P.T., Grade V, £252-£570.

(c) QUANTITY SURVEYORS ASSISTANT.

Salary A.P.T., Grade I, £390-£436.

Candidates for appointment (a) should be Associates of the Royal Institution of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction and also be experienced in the management of building contracts. For appointment (b) candidates should be Associate Members of the Institution of Civil Engineers and/or possess the Testamur of the Institute of Municipal Engineers; and for appointment (c) should have had experience in working up Bills of Quantities.

The appointments will be subject to:—

(a) the provisions of 'he Local Government Superannuation Act, 1937;

(b) the passing of a medical examination;

(c) the Standing Orders of the Council, Applications, stating age, qualifications and experience, together with particulars of past and present employment—accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed clearly as to the appointment of which application is submitted, addressed to the City Engineer, Town Hall, Salford, 3, Lancs, so as to be received not later than Friday, 22nd July, 1942.

July, 1949.
Applicants must disclose, in writing, whither or not they are related to any member of the Council or an officer of the Authority.

H. H. TOMSON, Town Clerk

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
TOWN PLANNING ASSISTANT.
Applications are invited for the appointment of a Town Planning Assistant, Grade IV (2480-2525). Applicants abould be A.M.T.P.I. The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.
Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.
Applications, endorsed "Town Planning Assistant" stating age, qualifications, present and previous appointments and experience, should be sent, together with copies of two testimonials, to the undersigned not later than Saturday, the 18th July, 1349.

July, 1949.

W. S. DES FORGES

23rd June, 1949.

CROWN AGENTS FOR THE COLONIES.
Applications from qualified candidates are invited for the following post:

STRUCTURAL DRAUGHTSMAN required by the Government of Kenya for four years in first instance. Commencing salary according to experience in the scale £670 a year, rising to £840 a year. Free passages. Outhit allowance £30. Separation allowance. Gratuity. Liberal leave on full salary. Candidates, not over 40, should have had experience of commercial reinforced concrete design and if possible experience of steelwork design as applied to buildings. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.I., quoting M/N/2433/3D os both letter and envelope.

S.W.1, quoting M/N/2433/3/30 os both letter and envelope.

HIS MAJESTY'S COLONIAL SERVICE
CHIEF ASSISTANT PLANNING OPFICER required by the Government of the Gold Coast.
The appointment is on contract for two tours in the first instance, with the prospect of transfer to the permanent and pensionable establishment. Salary (inclusive of expatriation pay) £1.300 per annum. Outfit allowance of £60 on first appointment. Partly furnished Government quarters are provided, if available, at a rental of £90 per annum, and income tax is payable at low West African rates only. The selected officer will be required to assist the Secretary and Executive Officer of the Town and Country Planning Board. The programme of the Board envisages the preparation of supplementary and final schemes for Accta, Rumasi, Sekondi, Takoradi, Cape Coast, Tarkwa, and several smaller towns. Candidates must possess the qualifications of A.M.T.P.I. and A.B.I.B.A., and have good experience in the preparation of Town Planning Schemes. Preference will be given to candidates between the ages of 35 and 45.

The terms of service include free first-class passages once each way each tour for the officer and, if married

35 and 45.

The terms of service include free first-class passages once each way each tour for the officer and, if married, for his wife, free medical attention and home leave after tours of 18 to 24 months at the rate of 7 days for each month of resident service. A gratuity is payable on satisfactory completion of the period of contract, if the officer is not selected for transfer to the permanent and pensionable establishment.

Auplicants should write at once to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.I., stating age, professional qualifications and experience, and quoting reference No. 27321/H.

METROPOLITAN BOROUGH OF
WANDSWORTH.
ARCHITECTURAL ASSISTANT.
Applications are invited for the established appointment of Architectural Assistant, in the Borough Architect's Department, at a salary in accordance with Grade A.P.T., VII (£665-£740 per accordance with (

accordance with Grade A.P.T., VII (2665-2740 per annum inclusive).
Candidates should be fully experienced in the design and planning of housing estates, particularly multi-storey blocks of flats and/or other framed buildings, and in supervising their erection. Preference will be given to Associates of the R.I.B.A.
Forms of application may be obtained from the Borough Architect, and must be received by the undersigned not later than the first post on Friday, 8th July, 1949.

R. H. JERMAN,

R. H. JERMAN, Town Clerk. Municipal Buildings, Wandsworth, S.W.18. 1388

NATIONAL COAL BOARD, WEST MIDLANDS DIVISION.

Applications are invited for the appointments of ARCHITECTURAL ASSISTANTS, Grade I, in the Board's Architectural Service, with Headquarters at Himley Hall, near Dudley, Worcs. Salary £410×£20—2596, according to qualifications and experience be able to prepare sketch plans and working drawings from rough sketches, and have a good knowledge of construction. Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

osts are eligible for the Board's Superannua-

tion Scheme.

Applications, giving age, education, qualifications and experience, with dates in chronological order, should be made as soon as possible to:—Establishment Officer, National Coal Board. West Midlands Division, Himley Hall, Dudley, Wores.

Envelope should be marked "A.S.I." 1410

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following appointments in the Headquarters' Office of the County Planning Department, County Offices,

County Planning Department, County Offices, Preston:

(a) ASSISTANT COUNTY PLANNING OFFICER (ARCHITECTURE).

The commencing salary will be within the range of £1,200 × £75-£1,500 per annum, according to qualifications and experience.

Candidates must possess a Degree or Diploma in Architecture, or have passed the final examination of the Royal Institute of British Architects. Membership of the Town Planning Institute would be an advantage.

It is essential that candidates should have had extensive experience in the detailed planning of residential, industrial and central areas. The successful applicant will also be responsible for the work of the Estate Development Team established by the County Council to carry out, in co-operation with County District Councils, comprehensive schemes for the accommodation of overspill populations from adjacent urban areas by the development of existing townships. Accordingly, practical experience in the development of housing and industrial estates would be an advantage.

by the development of existing townships. Accordingly, practical experience in the development of housing and industrial estates would be an advantage.

(b) DEPUTY ASSISTANT PLANNING OFFICER (URBAN), A.P.T., Grade IX. The commencing salary will be within the range of £750×£50—£900 per annum, according to qualifications and experience.

Candidates should possess one or more of the following or equivalent qualifications—a University Degree in Engineering, A.M.T.P.I., A.M.I.C.E., A.R.I.C.S., A.M.I.Mun. E.

Candidates should have had practical experience in the formulation of planning schemes of large urban areas forming part of an entire region or county; should be familiar with the requirements of the Minister under the Circulars and Orders issued in conjunction with the Town and Country Planning Act, 1947, and should also have had practical experience of development control. The successful applicant will be required to supervise the preparation of the statutory County Map and Town Maps for Lancashire.

(c) DEPUTY ASSISTANT PLANNING OFFICER (RURAL). A.P.T., Grade IX. The commencing salary will be within the range of £750×£50—£900 per annum, according to qualifications and experience.

Candidates should possess one or more of the following or equivalent qualifications—A.M.T.P.I., A.I.L.A., A.R.I.C.S. (Land Agency Division), Applicants should possess ability for designing landscape features associated with development of the country Planning Act, 1947, including to remain and country Planning Act, 1947, including Tree Preservation Orders and the control of mineral workings, and will be employed on the Development Plan applied to rural areas.

The successful applicant will be required to deal with the preservation of natural amenities according to the powers contained in the Town and Country Planning Act, 1947, including Tree Preservation Orders and the control of mineral workings, and will be employed on the Development Plan applied to rural areas.

The accessful applicant will be required to deal with the preserva

later than Saturday, the 16th July, 1949. Applicants should state clearly for which appointments they wish to be considered.

R. H. ADCOCK,

Clerk of the County Council.

County Offices, Preston. 1434

Tenders for Contracts

6 lines or under, 10s.; each additional line, 1s, 6d.

BOROUGH OF OSWESTRY.

STAGE NO. 2.—PERMANENT HOUSES.
SHREWSBURY ROAD SITE.

Tenders are invited for the erection, either as a whole or any part thereof, of 74 Permanent—Three Bedroomed—Houses of varying types in Pairs, Blocks of three and four, together with the formation of paths, etc., on the above site.

Specification, Bills of Quantities and Forms of Tender may be obtained from the Architect, Mr. S. Fox-Davies, M.Inst.R.A., Memorial Hall, Oswestry, on or after Monday, 11th July, 1949, on the deposit of £5 5s. (which will be refunded on receipt of a bona-fide Tender).

Tenders should be forwarded to the undersigned in plain sealed envelope marked "Tender—Permanent Houses," not later than 10 a.m. on Tuesday, 2nd day of August, 1949.

The Council do not bind themselves to accept the lowest or any Tender, and any Tender accepted will be subject to the approval of the Minister of Health.

H. BIRD JONES, Town Clerk.

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Guildhall, Oswestry, Salop. 29th June, 1949.

Practice Wanted

6 lines or under, 10s.; each additional line, 1s. 6d.

A RCHITECT, F.R.I.B.A., wishes to purchase Practice, with or without office accommodation, in London; ample capital available. Box

A RCHITECT desires Practice, with or without available immediately, with attractive terms.

Partnerships and Fianancial

6 lines or under, 10s.; each additional line, 1s. 6d.

OLD-ESTABLISHED Midlands Firm of Architeets, having an extensive, interesting, and varied practice, offers a Junior Partnership to a qualified and experienced man following a brief probationary period. Write for interview and send full particulars to Box 1265.

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

WILL any ASSISTANT, preferring a small private office in an East Midland country town, to a Council Office, please apply to Box 782. A RCHITECTURAL ASSISTANT of Intermediate standard, required immediately by Firm of Architects in West End of London; salary according to experience and qualifications.

A RCHITECTÜRAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; alary dependent on experience or qualifications. Apply personally, by telephone or in writing, Pite Son & Fairweather, Chartered Architects, 6, Queen Anne's Gate, Westminster, S.W.I. Whitehall 5576.

Mhitenali 5576.

A RCHITECTURAL ASSISTANT required;
Leeds area; must be experienced in working
drawings, details, levelling, etc. Write, stating
age, experience, and salary required, Box 1185.

age, experience, and salary required, Box 1183.

NORTH Midlands office requires CHIEF ASSISTANT, experienced in controlling jobs through all stages; partnership follows to suitable applicant. Send particulars to Box 1266.

ASSISTANTS of R.I.B.A. final stage, with some office experience, urgently required; good salaries to keen and energetic workers. Particulars to Naylor, Sale & Widdows, St. Marys Chambers, St. Marys Gate, Derby.

120NIOR/SENIOR ARCHITECTURAL ASSISTANT urgently required by London Architects engaged upon Council housing estates. Full particulars and salary required to Lawrence Farman & Partners, 258, Upper Richmond Read, London, S.W.14.

ARCHITECT'S ASSISTANT required for

London, S.W.14.

A RCHITECT'S ASSISTANT required for general Country practice; must be capable of preparing surveys, details, and specifications; knowledge of housing an advantage; give details of training, age, experience, and salary required. Apply Edwin H. Earp, L.B.I.B.A., Etratford-on-type of training and the control of the contr

AVON.

A RCHITECTURAL ASSISTANT required in Berks office; surveys, specifications, supervision, etc., for varied and extensive work in all parts of the country; good prospects for keen man. Apply, with details of experience and salary required, to Box 1256.

SENIOR ARCHITECTURAL ASSISTANT required; experience of good quality building an advantage; commodious flat available for successful applicant. Apply Lavender, Twentyman & Percy, F./A.R.I.B.A., 2, Waterloo Road, Wolverhampton.

A RCHITECT'S JUNIOR ASSISTANT required. A Write, stating age, experience, and salary, to W. Leslie Jones, 37, High Street, Great Missenden, Bucks.

SENIOR ASSISTANT ARCHITECT required for appointment to staff of Development and Research Department; applicants must hold Associateship of R.I.B.A., and be interested and experienced in industrial construction. Applications in writing, stating age, experience, and salary required, to Chief Staff Architect, Hiford, Little Ponford Research y required, to Ch Romford, Essex.

A SSISTANT required in busy West Riding Brewery Company's Architectural office; applicants must bave had experience in this type of work; knowledge of Builders' Quantities an asset; applicants must state age, experience, and salary required. Box 1295.

SENIOR ARCHITECTURAL ASSISTANT for general practice. Write, giving full details of experience and salary required, to J. C. Prestwich & Sons, M.A., F./A.R.I.B.A., Bradshawgate Chambers, Leigh, Lancs.

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECT'S DEPARTMENT, LONDON, Applications are invited for the following:—FOUR ASSISTANT ARCHITECTS. Salary 2490-2555 per annum. Applicants should have a sound knowledge of building construction and Architectural design, capable of preparing working drawings and details under supervision. TWO ASSISTANT ARCHITECTS. Salary 2420-2485 per annum. Applicants should be good draughtsmen, having a sound knowledge of construction.

draughtsmen, having a sound knowledge of construction.

Workers-up with thorough knowledge of Abstracting and Billing required in Quantity Surveyor's Section.

These appointments are permanent and offer prospects of up-grading.

Successful candidates will be required to undergo a medical examination for a compulsory Superannuation Scheme, Applications, stating age, experience, and qualifications, to be addressed to the Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1.

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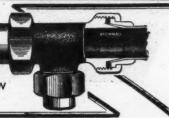


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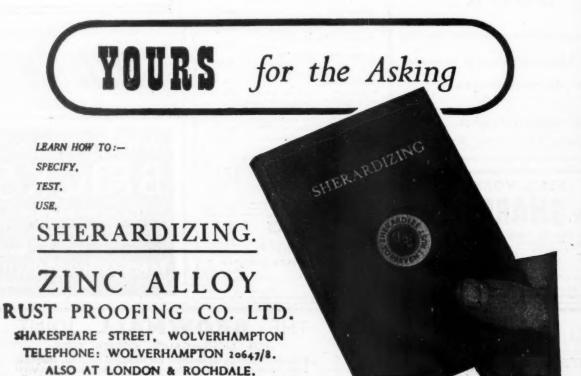
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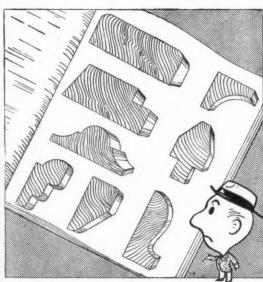
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IMPORTANT
Biro pens and refills are patented and are sold subject to a limited licence, it being a condition that they shall not be recharged with ink. The reason for this is that the writing life is so long that the nib unit with its constantly rotating ball, would wear out before the second charge of ink was used up. Every Biro refill has a new nib unit.

ANY RECHARGING OF A BIRO PEN OR REFILL UNIT CONSTITUTES AN INFRINGEMENT OF PATENT.



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