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This main frame casting for a straight-line edger measures 5' 8" × 3' 8" × 3' 5". In strong heat-treated aluminium alloy it weighs 642 lb. Machine-tool manufacturers are turning to Light Metal castings because of their low cost, guaranteed soundness and high shock resistance. Light Metal castings are easily handled and may be machined at high speeds; they cut labour costs and increase production.





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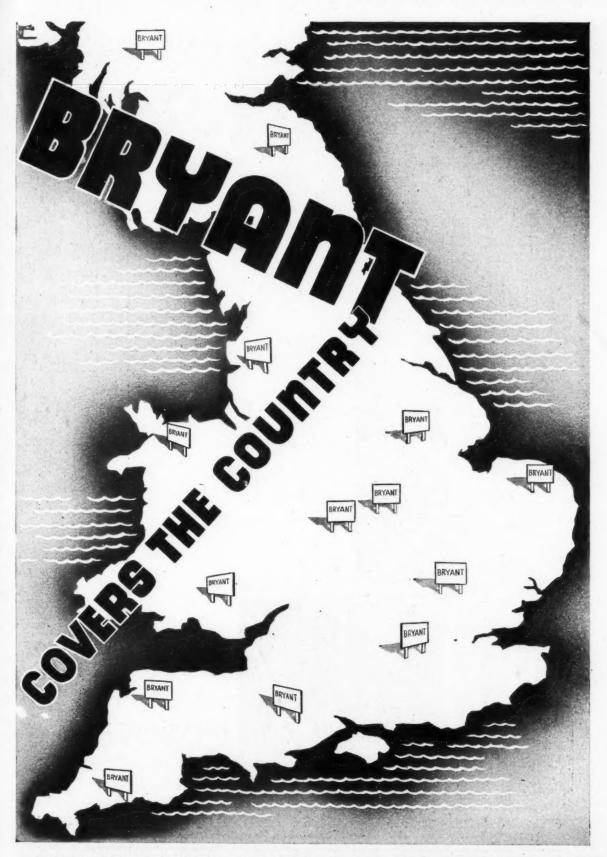


The simplicity of the Siegwart precast System is one of the factors which enables the floors to be so quickly fixed.

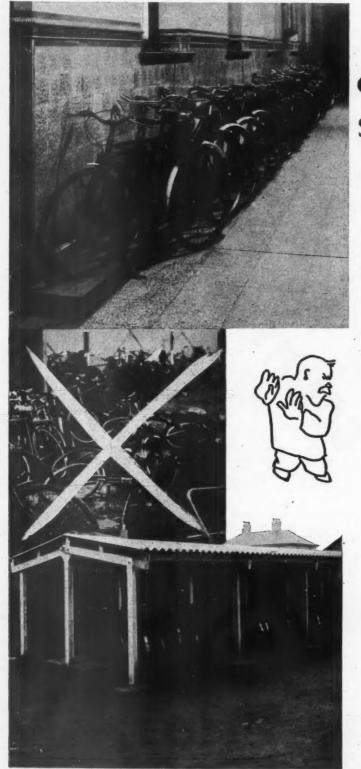
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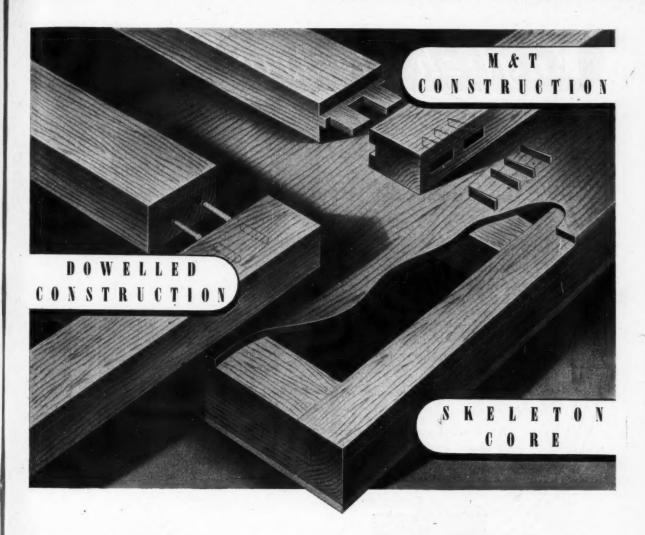
BICYCLES

(British Patent No. 425265)

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Illustration shows a Mortised, Tenoned and Wedged Joint. It is the time-honoured craftsman's construction.

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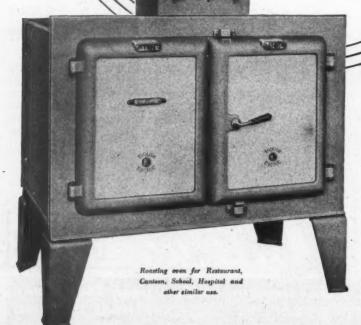
Three things are vital . . . the equipment must be of a design able to "fit in" with other apparatus — that it has a pleasing appearance and lasting finish — and that it is completely reliable.

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Ladies and Gentlemen . . . the whip cracks . . . the circus opens . . . plumebeaded horses scatter the tan . . . wirewalkers and equestriennes . . blaring band . . . tumbling clowns . . . trapezists, watched breathlessly to rolling drums . . . tiny ponies and stately elephants. What an incredible, joyous kaleidoscope!

Fascinating to recall the circus; a nostalgic reminder of the pleasant days when good things abounded and Aluminium was to be found in every kitchen. Pots and pans come automatically to the mind when thinking of Aluminium, until one begins to enumerate the hundreds of uses to which this ubiquitous metal is put in every type of industry. Light, strong, durable, non-rusting and most decorative, Aluminium is the Metal of the Age and we, at British Aluminium, are prepared for great development in its range of application. We are specialists in Aluminium and its uses; from raw material to fabrication of the pure metal and its many alloys into various forms, our resources and experience are unequalled.

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xii] THE ARCHITECTS' JOURNAL for November 7, 1946

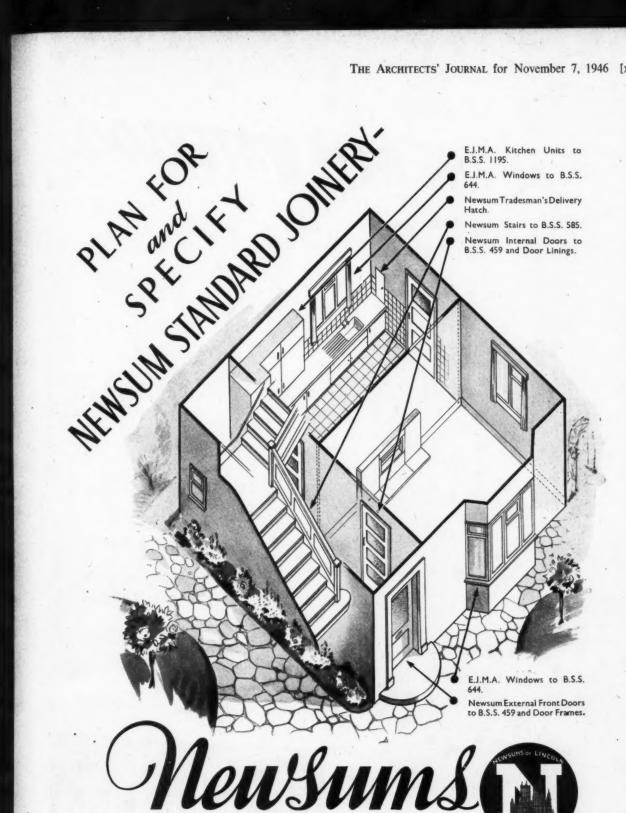
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THE NEW WATERLOO.

A MODERN

SINGLE POINT WATER HEATER

WITH DETACHABLE INTERIOR

TO FACILITATE MAINTENANCE

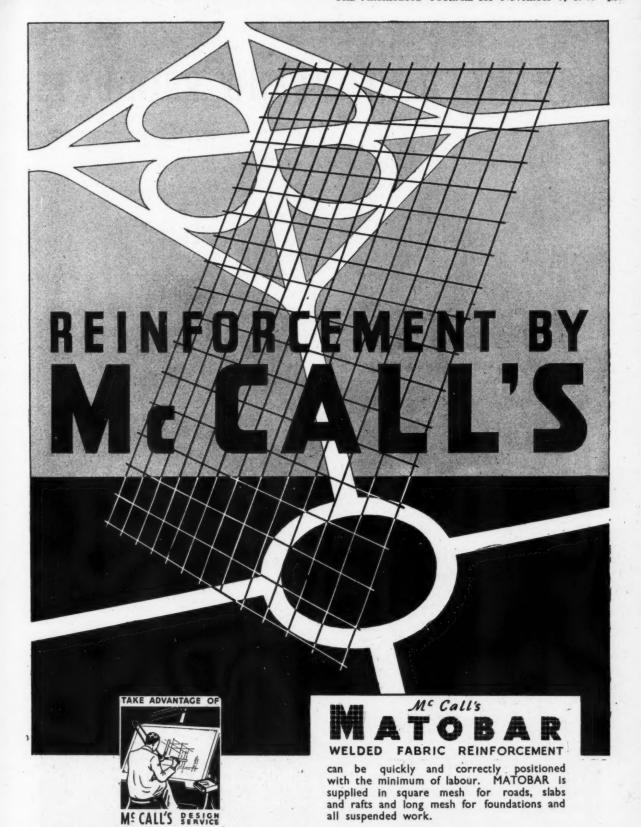
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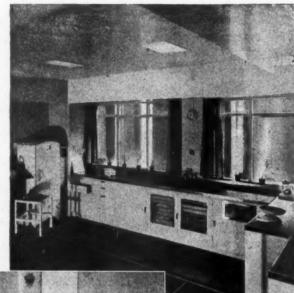
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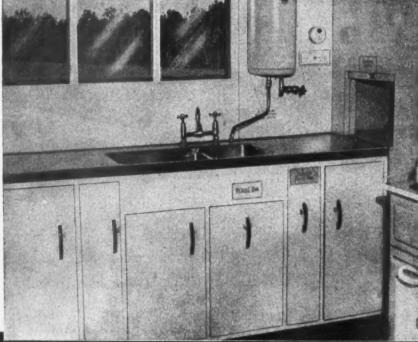
home, hotel, hospital
-every building project
has its place for the
hygienic qualities &
truly modern elegance



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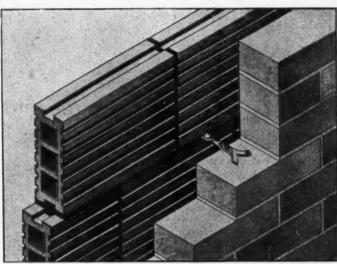
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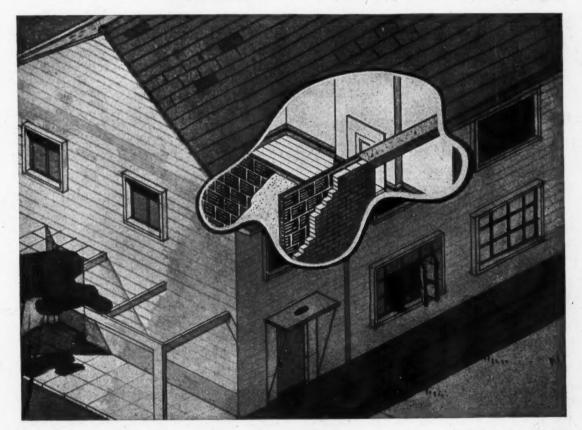
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PHORPRES HOLLOW CLAY BLOCKS



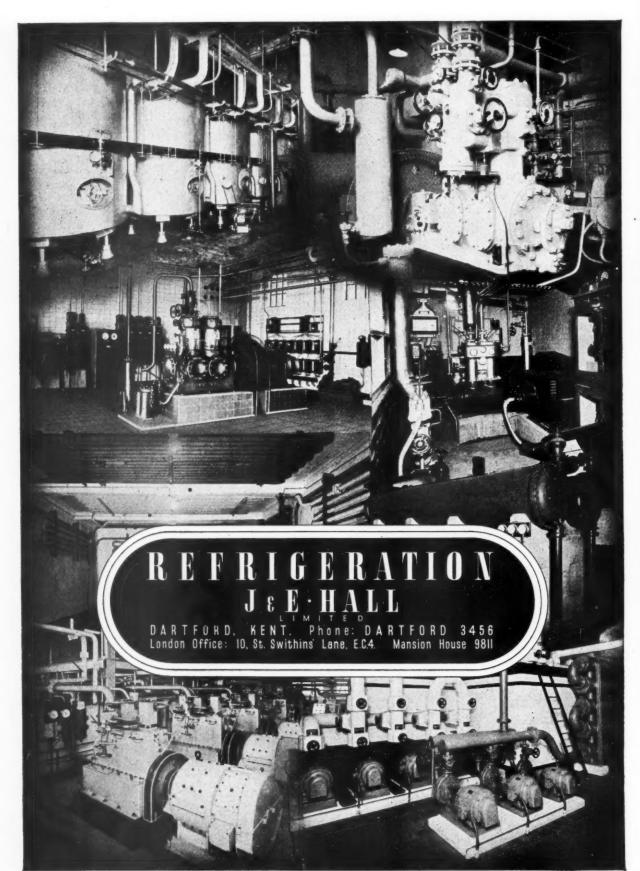
These blocks can be recommended for all types of partition work, internal lining to brickwork and party wall construction. They are loadbearing, fire and vermin proof and give excellent plastering results.



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CLIENT: Imperial Chemical Industries Ltd.

SITE: Heysham, Lancs.

FLOOR AREA: 12 main buildings each 30,000-100,000 sq. ft. and from 40 to 90 feet high, also many smaller buildings.

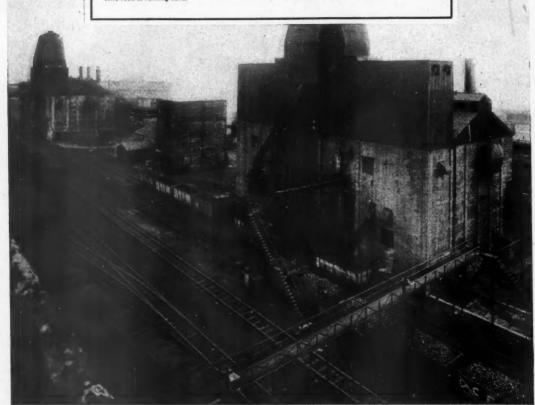
SUBSOIL CONDITIONS: from solid rock to running sand.

MATERIALS included over 3,500,000 cu. ft. reinforced concrete and 15,000,000 bricks.

SERVICING: 6 miles of roads, 8 miles of rail track, 16,000 sq. ft. concrete reservoir (20 ft. deep), many miles of cable ducts (up to 10 ft. x 20 ft.) and process piping.

APPROXIMATE COST: £1,500,000

DURATION: 18 months.



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Finally, throughout work on site, Progress Engineers see that



performance matches plan occasionally, if some new factor enters, see that performance is modified. For, let us repeat, Wimpey planning is elastic. It is the result of sixty years' successful practice. It is employed because it saves time and money and produces better work.

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The Combined Unit

(Floor Cupboard and Floor Drawers with continuous top)

The unit illustrated is one of a complete range of kitchen units made by Charlesworth. Of allmetal construction they are beautifully finished in cream and green enamel, sink tops are of stainless steel, vitreous enamel or aluminium, and such features as concealed hinges and quietly closing doors are characteristic of the careful planning. Send for list illustrating the complete range.

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Charlesworth OUALITY KITCHENS

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The Combined Unit with Floor Corner Shelf added



THIS photograph, taken during the Rhine crossing, recalls one of the many occasions when the Commandos went into action. The disabled comrades and dependants of these gallant men now need your help. You can preserve the Commando spirit in a Britain which needs it more than ever. Give generously and write for details of how you can help in "Operation Unforgetting."

Please help the COMMANDO BENEVOLENT FUND

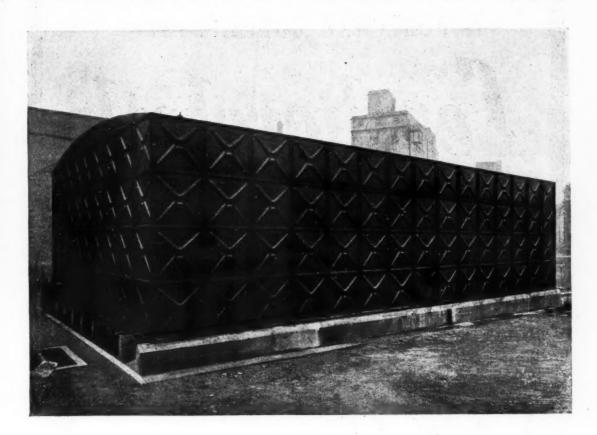
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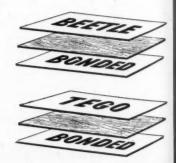
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"Mosquito" and other aircraft, for the hulls of M.T.B.'s, and for numerous other wartime purposes, offer many advantages to the Architect and Builder. This new plywood is made only by reputable British Manufacturers and is distinguished by one of these signs stamped on every sheet:

Enterprising manufacturers who would like to experiment with this new and better plywood should ask their suppliers about it.



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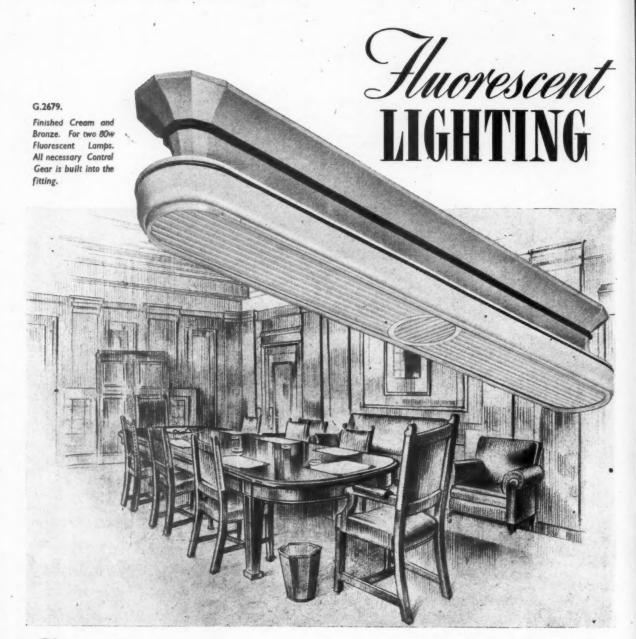


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REMEMBRANCE DAY

Will it be so again
That the brave, the gifted are lost from view,
And empty, scheming men
Are left in peace their lunatic age to renew?
Will it be so again?

Must it be always so
That the best are chosen to fall and sleep
Like seeds, and we too slow
In claiming the earth they quicken, and the old usurpers reap
What they could not sow?

Shall it be so again?

Call not upon the glorious dead

To be your witnesses then.

The living alone can nail to their promise the ones who said

It shall not be so again.

C. DAY LEWIS
From "Word Over All" (Jonathan Cape Ltd.)

THE UNITED STEEL COMPANIES LIMITED

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STEEL, PEECH & TOZER, SHEFFIELD SAMUEL FOX & CO. LTD., SHEFFIELD UNITED STRIP & BAR MILLS, SHEFFIELD APPLEBY - FRODINGHAM STEEL CO. SCUNTHORPE WORKINGTON IRON & STEEL CO., WORKINGTON UNITED COKE & CHEMICALS CO. LTD., CUMBERLAND

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★ This quicker, neater joint will facilitate prefabrication of pipe work and reduce work on site to a minimum.

To the already recognised advantages of copper for plumbing and heating installations—ability to resist corrosion, flexibility, uniformity and length of life—far more important factors are now added, with the use of Ideal Full-Way Copper Fittings—speed and simplicity of making connections by the employment of the easily made capillary attraction solder joints.

Details of the full range of Ideal Copper Fittings will be sent on request.



The copper tube and fitting, to be joined, must be cleaned with steel wool leaving both surfaces bright.



Ideal Non-Corrosive Soldering Paste is then applied evenly to the part to be joined.



The tube and fittings are then put together and heated with a blow-lamp until the paste boils. The edge of the fitting is then touched by solder wire. The solder will melt immediately and flow, filling the cavity between the tube and fitting.



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The illustration shows the fixing of Newalls brand Paxtiles to provide a sound absorbent surface for acoustic correction. Paxtiles are made of asbestos and are fireproof and vermin proof.

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Insulation Co. Ltd.

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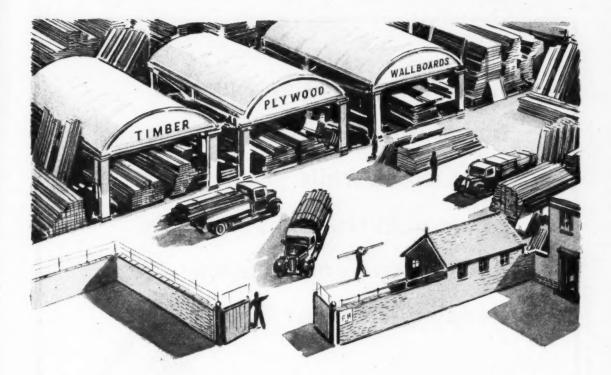
Cables glide through the super-smoothness of "Walsall" Conduit, and over the smooth bushed entries of "Walsall" Fittings.....

The Conduit System without "snags."





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Sound setting and proper hardening of concrete can only take place while water is present in the mix. There's nothing so good as IBECO* for keeping it there!

pletely impervious to moisture by a patented birumen emulsion totally permeating the paper fibres. Folding and creasing do not impair its waterproofness since there is no 'free' birumen to harden and crack. Five weights are made — for concrete work, roof work, floor and wall-lining. Samples and full technical data sent on request.





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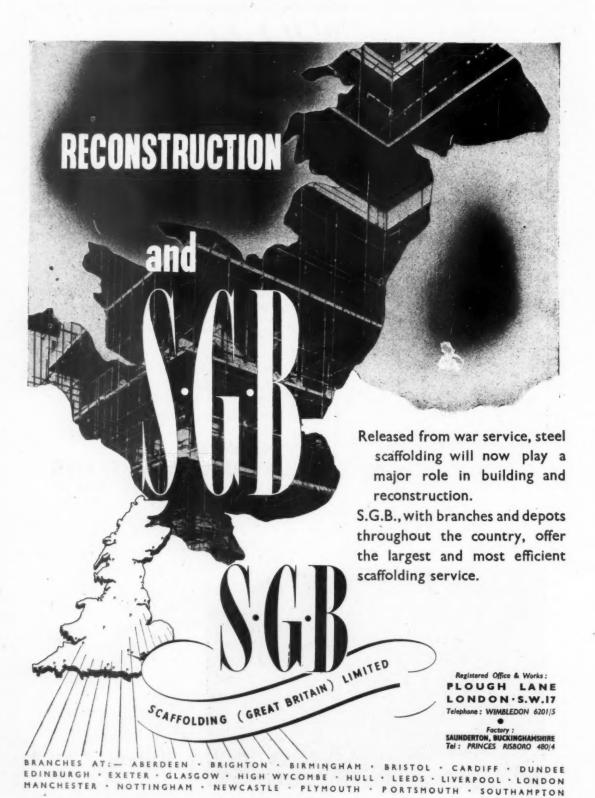
May we offer you Ferrocon Special Standards? We invite your problems.

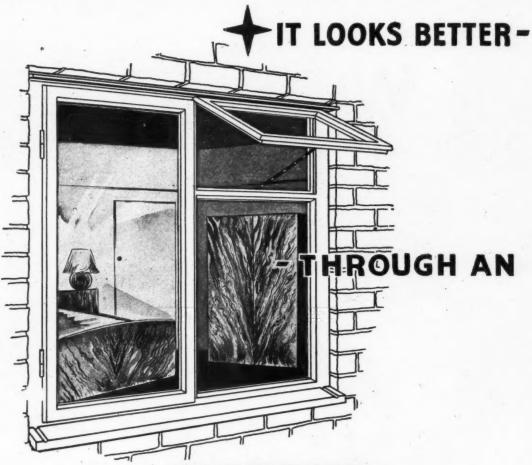
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The **EIMA** window is a well designed window. The proportions are good; the ratio of wood to glass area is good; therefore the daylight admission factor is good. And they look good. as made by Austins, with their years of window making experience, they are very good indeed.

Prompt delivery from stock against the necessary timber licence.

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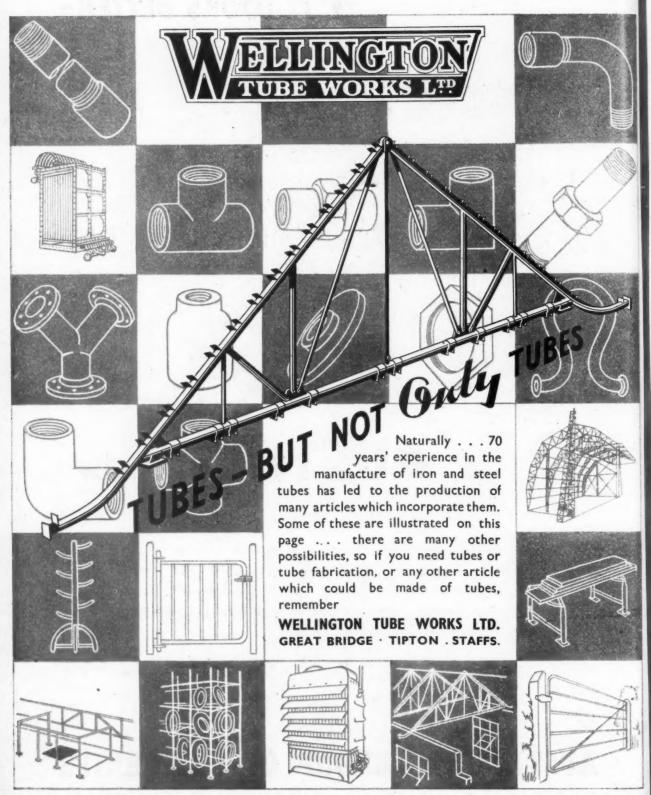
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Design

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DIARY FOR NOVEMBER DECEMBER AND JANUARY

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 as given in the glossary of abbreviations on the front cover.

L ONDON. New Homes for Old. Exhibition of House Conversion at the Tea Centre, 22, Lower Regent Street, S.W.1. 10.30 a.m.-5.30 p.m. Saturdays, 10.30 a.m.-4.30 p.m. Admission 1s. (Sponsor, HC.) Until Nov. 28

A. G. Harfield. Presidential Address to the Royal Institution of Chartered Surveyors. At 12, Great George Street, London, S.W.1. Immediately prior to the meeting the President, on behalf of members, will lay a wreath at the Institution War Memorial. 5 p.m. Nov. 11

RIBA Inaugural Meeting. At 66, Portland Place, W.1. The President, L. H. Keay, will deliver his Inaugural Address and unveil the portrait by James Gunn of Sir Percy Thomas, Past-President. (Sponsor, RIBA.) 6 p.m. Nov. 12

M. Lossos. Continental Heating Practice.
At Room No. 1, Gas Industry House, S.W.I.
6 p.m. (Sponsor, IHVE, London and District.)
Nov. 12

British Export Exhibition. At the London Exhibition Centre, New Coventry W.I. Manufacturers desirous of taking space should communicate with L. M. Fisher, Controller and Organizer at the Exhibition Centre (Sponsor, Leon Goodman Displays, Ltd., managers of the Exhibition Centre.) Nov. 12-23

Architecture & Planning Group Society for Cultural Relations with the USSR. Meeting at 98, Gower Street, W.C.1. 6.15 p.m. Nov. 14

Furnishing To-day Exhibition. At the Good Housekeeping Furnishing Studio, 28-30, Grosvenor Gardens, S.W.1. The first of a varied series of small exhibitions to be held in the studio. Its purpose is to show how the ordinary householder can contrive attractive and practical equipment for the home from materials now available, and at very low cost. Until Nov. 15

Association of Building Technicians, London District. Conference on Immediate Policy for Council Housing and Re-development. At the London School of Hygiene, Keppel Street, W.C.1. Chairman: Gordon Schaffer, Assistant Editor "Reynolds News." Speakers: Ronald Chamberlain, M.P., Parliamentary Private Secretary to Minister of Town and Country Planning; Tom Braddock, M.P., F.R.I.B.A.; Councillor Irene Marcousé, L.C.C., Chairman, Holborn Housing Committee; T. E. North, F.R.I.B.A., Borough Architect and Planning Officer, West Ham; C. N. Craig, M.A., London Distract ABT. Admission free. Tea, 4.30, 1s. 6d. (Sponsor ABT.) 2 p.m. Nov. 16

BINC Third Building Congress. At Central Hall, Westminster, S.W.I. The object of the congress will be to enable those in both official and private positions to meet and discuss the many problems facing the building group of professions and industries. Tuesday, November 19. 10 a.m. Opening of congress by the Minister of Works (the Rt. Hon. George Tomlinson, M.P.). First Session: Discussion on the General Problems of the Immediate Position with regard to materials supply and its effect on productivity. 2.15 p.m. Second Session. Discussion on the Place of Traditional and New Forms of Construction. Wednesday, November 20. 10 a.m. Opening of the Second Day by the Minister of Health (the Rt. Hon. Aneurin Bevan, M.P.). Third Session: Discussion on the Long Term Availability of Building Materials for the National Building Programme. 2.15 p.m. Fourth Session: The Parliamentary Secretary to the Ministry of Works (Mr. Harold Wilson, O.B.E., M.P.) will make commentary reference to the previous discussions and open a discussion on the future relations of the Government with the Building Industries. (Sponsor, BINC.) Nov. 19-20

AA Exhibition of Members' Sketches. At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) Until Nov. 23

House-Building Industries' Standing Committee Conference. At the Seymour Hall, Marylebone. Nov. 28

Exhibition of the King's Pictures. At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanetly kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until Mar. 16

NORFOLK. What is Modern Painting?
Exhibition at Norfolk Education
Committee Youth Centres. (Sponsor, Arts
Council.)
Until Dec. 4

SOUTHAMPTON. What is Modern Painting? Exhibition at Woolston Community Centre. (Sponsor, Arts Council.) Until Nov. 8

WAKEFIELD. Sculpture in the Home. Exhibition at City Art Gallery and Museum. (Sponsor, Arts Council.) Until Nov. 9

WIMBLEDON. Shannon, Ltd., Diamond Jubilee Party. At the Town Hall. Nov. 12

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. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

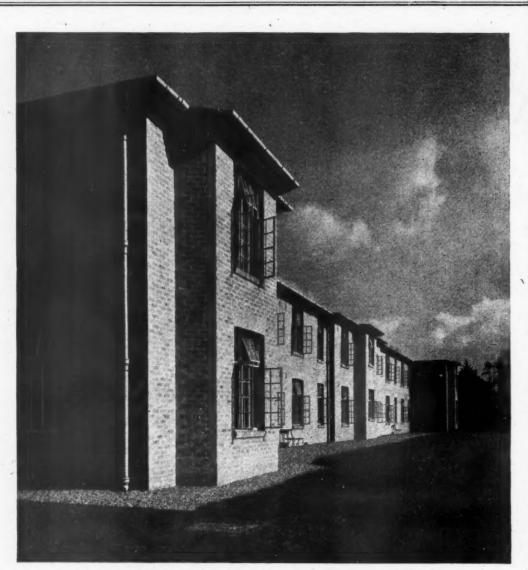
means spare a second for this, it will probably be worth it.

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

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

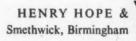
Mr. Anthony M. Chitty, M.A., F.R.I.B.A., A.M.T.P.I. (of Hening and Chitty, Architects), has been appointed TOWN PLANNING CONSULTANT TO THE COUNCIL AT FARNHAM, Surrey, and will prepare a plan for the town, with special attention to the protection of the town's architectural merits and to landscape development of the River Wey in the area.

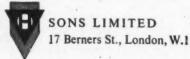
The site known as Castlemount, a plateau of 14 acres below Dover Castle, has been acquired for the erection of DOVER'S BATTLE OF BRITAIN MEMORIAL HOSPITAL. This hospital will replace the Royal Victoria Hospital, and will contain a record of the name of every airman who fell in the Battle of Britain. An exterior feature will be a light turret containing a Beacon of Thanksgiving. An appeal is being made for £250,000 to achieve this commemoration. Contributions should be sent to the Chairman, Royal Victoria Hospital, Dover, Kent.



East Lancashire Tuberculosis Colony, Barrowmore, near Chester Thomas Worthington and Sons, Architects

HOPE'S WINDOWS





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From AN ARCHITECT'S Commonplace Book

SYMBOLISM OF THE OBJET D'ART. [From Revolution of Environment by E. A. Gutkind (Kegan Paul, Trench, Trubner and Co.).] We are standing at the end of an evolution that began with the splitting up of man's personality at the Renaissance after mediæval society and cosmology had disintegrated. . . . When Giotto painted his first picture on a piece of wood instead of on the wall of a church, he made the first step towards the disintegration of the unity of the arts. In the cathedrals of the Middle Ages architecture, sculpture and painting formed an indissoluble unity. Each of them had its definite place, from which it could not be removed without destroying not only the idea, but also the actual structure of the cathedral. The Renaissance undermined this unity and replaced it with a side-by-side arrangement of the arts. It created the objet d'art instead of the object of reverence. Every connoisseur might have his own architectural masterpiece, his sculptures and his paintings. He could place his Donatello and his Raphael wherever he liked. This twilight of art, in all its beauty, lasted during the succeeding centuries until, in our own day, art has become the luxury of the happy few, an article of commerce, or is piled up and elaborately card-indexed in warehouses—museums—the necropolises of art; and the art which our own time has to offer bears the mark of uncertainty and disintegration or of a helpless eclecticism—the true symbol of our society and of its individual members.

On and from November 12, the Britain Can Make It Exhibition will be CLOSED TO THE PUBLIC every Tuesday and Friday morning from 10 a.m. to 1 p.m. until December 31, or until further notice.

On Tuesday mornings the exhibition will be reserved for school parties. Head teachers should apply to the Ticket Officer (Schools), Council of Industrial Design, Tilbury House, Petty France, London, S.W.1. On Friday mornings directors, managers, and buyers of industrial and commercial establishments and foreign visitors can obtain admission on presentation of their signed business cards.

Bristol University has launched an appeal for £300,000 to cover the cost of a GREAT UNIVERSITY CENTRE on St. Michael's Hill, closely adjacent to the present university buildings, and halls of residence focused around Wills Hall, Stoke Bishop. The appeal is made in honour of Mr. Winston Churchill, Chancellor of the University of Bristol for nearly 20 years. Before it was launched subscriptions totalling £136,432 had been promised, including £50,000 from Lord Dulverton and £25,000 from the Imperial Tobacco Company, of which he is chairman.

A. W. T. Richards, F.S.I., of 80, Valleyfield Road, Streatham, S.W.16 was PROSECUTED BY THE ARCHITECTS' REGISTRATION COUNCIL at Lambeth Police Court on Wednesday, October 30, for practising or carrying on business under the title of Architect, not being a registered person, contrary to Section 1 of the Architects (Registration) Act, 1938. The Defendant pleaded guilty. The summons was dismissed by the magistrate under the Probation of Offenders Act

on payment of five guineas costs. The defendant pleaded that he had inadvertently omitted to remove the word Architect from his letter-paper when the Architects' (Registration) Act, 1938, was passed, and had also neglected to submit an application for registration for the consideration of the Architects' Registration Council.

The War Damage Commission issues a reminder that an important change in the procedure with regard to NOTIFICATION OF WAR DAMAGE to land and buildings, public warning of which was given some months ago, came into operation on October 1.

Arrangements for the reception and payment of claims for the proper cost of repair work remain unaltered. The War Damage Act provides that every person who desires to make a claim in respect of war damage to property must first have notified the Commission that such damage has occurred. Despite the fact that the last bomb fell on

this country early last year, first notifications continue to be received at the rate of over 2,000 a week. The Commission decided some time ago that from October 1 the rule governing the submission of notifications must be tightened. Accordingly Form C.f., which has been in use for the purpose, and was obtainable at Town Halls and Council Offices, has been withdrawn and replaced by a new form, C.1 (L.N.), for which application will have to be made to the Commission's Regional Offices. The new form is an application for extension of the statutory time limit for notification. It calls for the reasons for delay in notifying; for a schedule, prepared at the applicant's expense by his professional adviser or builder, of all the war damage which it is desired to make the subject of a claim; and for a full statement of the facts relied on to prove that the damage was wholly war damage. Acceptance of a notification submitted on the new Form is at the discretion of the Commission. As stated above, the new rule applies to notifications only. An impression, apparently current in some quarters, that no claims will be paid after October 1, is completely mistaken. Cost of works claims will continue to be dealt with according to the rules which have always been in force.



Four of the new houses built by the Manchester Corporation at Greenwood Road, Sharston.



King's Picture

Among the exhibition of the five hundred King's pictures now on view at the Royal Academy is this Canaletto of the interior of St. Mark's, Venice, at night. Though the

subject is vast and dramatic, the picture is probably the smallest Canaletto ever painted, measuring only 11 in. by $7\frac{1}{2}$ in. The exhibition remains open until March 16.

A petition has been presented to the Secretary of State for Scotland calling attention to GLASGOW HOUSING CONDITIONS. deputation from the Anderston and Sandyford Housing Association of Glasgow was received on October 29 at St. Andrew's House, Edinburgh, by officials of the Department of Health and the Department of Agriculture, in the absence of the Secretary of State for Scotland. A petition was presented, signed by 5,278 residents in the two wards of the city, calling attention to the grossly over-crowded and rapidly deteriorating living conditions there and order of the city. ing living conditions there, and asking the Secretary of State for (1) the promotion by the Government of a policy to rapidly clear the slums; (2) the enforcing of the law whereby property owners must keep their houses in a reasonable state of repair; (3) action to combat the growing menace of rats and other vermin, and to renew where necessary, the broken down drainage system. The deputation also presented a detailed memorandum on the living conditions, and members spoke to the statements contained in the memorandum. An assurance was given that the petition and the memorandum would be submitted to the Secretary of

North London local authorities interested in the development of new SATELLITE TOWNS in which they hope to house some of their surplus population have been informed by the Ministry of Town and Country Planning that they may be required to provide the labour to build houses on the sites allocated to them by the development corporations at Stevenage, Hertfordshire; Harlow, Essex; and Hemel Hempstead, Hertfordshire.

Arcon, Chartered Architects, have been appointed consultant architects to the FAMILY HEALTH CLUB HOUSING SOCIETY (Coventry) Ltd. The Society has recently purchased 250 acres of land just outside the boundary of the City of Coventry and plans to house 2,000 families on this estate. The Society's principal objective is an extension of the experimental work undertaken at the Peckham Health Centre during the interim war years towards the establishment of the principle of positive health. The whole estate will be planned around a Health Centre which is to incorporate the most up-to-date facilities for communal activities and recreation, and, in addition, will provide a sixmonthly health overhaul for all members of the Society.

Commission.

Mr. M. Thornley, A.A.Dip.
A.R.I.B.A., has just been
APPOINTED STAFF
ARCHITECT TO
THE ICI WILTON WORKS,
Wilton Castle, Middlesbrough.

he

THE CITY CHURCHES

NLESS the public objects to some of the proposals in the final report of the Bishop of London's Commission on the City Churches* at once and with vigour, Parliament may well accept the proposals of the report as they stand and legislate accordingly. Certainly a great deal of the report is beyond criticism. The Commission, in its interim report, accepted the principle that Wren's churches must be preserved wherever possible and it has loyally kept to that decision. Forty-seven churches in the City came within its purview. Twenty-seven survived the hazards of war intact or without serious damage, and no hand is to be laid upon them. There remain the damaged twenty. What shall be done with them?

The Commission has considered each in detail. Some, it has decided, have paramount claims for restoration. They include All Hallows, Barking-by-the-Tower (the mother church of Toc H), St. Lawrence Jewry and St. Stephen Walbrook (respectively the churches of the Corporation and the Lord Mayor), St. Bride, Fleet Street (the church of the journalists), St. Nicholas Cole Abbey and St. Vedant, Foster Lane, and finally St. Mary le Bow, Cheapside. In all, eleven, according to the Report, should be restored. Nine, totally wrecked, should not be rebuilt.

The Commission proposes that four of the sites of those totally wrecked churches shall be used for the erection of church halls, to serve the City as a whole, and that the remaining five shall be sold to provide money to build these church halls, to supplement the war damage contributions to the damaged but reparable churches, and to provide funds for the building of new churches elsewhere in Greater London. Certainly we should not attempt to rebuild any of them as Wren churches, if for no other reason that no Grinling Gibbons Whether restoration should be carried out lives to-day. where a very great deal of new work is necessary is debatable, and here each case should be considered very carefully according to its condition. But in the case of the nine completely destroyed churches there should be no argument at all, and it is here that we join issue most strongly with the

The sites of the nine completely wrecked churches must be considered not merely as a matter with which the Ecclesiastical Commissioners alone are concerned. They must be regarded as amenities which can benefit the whole City and not be sold in the open market for any business concern to treat as it likes. Since the Church functions on earth and not in heaven, it has to balance its accounts. One cannot, therefore, expect it to hand over the sites as a free gift to the people. We therefore suggest that an Act of Parliament should immediately be passed empowering the City to incorporate these sites as public gardens in the new City which is now so seriously

^{*} The City Churches (Press and Publications Board of the Church Assembly, Church House, Dean's Yard, S.W.I. is. 0d.)

lacking in open spaces. They must not, in fact, be regarded as desirable building lots, pieces of land having a market value, the private property of a parish council, but must be bought for the Nation and paid for out of public funds. In a number of cases they should certainly be treated as memorial gardens incorporating the ruins, in the excellent manner well publicised and supported but so far not carried out effectively in practice. These sites are part of our national heritage and must be treated respectfully as such.



The Architects' Journal

23 Queen Anne's Gate, Westminster, S.W.1
Phone: Whitehall 0611

NOTES

&

TOPICS

PURITANS, PILOTS, PRESERVATIONISTS, AND PLANNERS

The two unusual church-plans reproduced here are not stones from the They are the Baroquery of Vienna. plans of Free Churches in Mayfair and Hampstead, and were designed in 1891 and 1895 respectively by Alfred "Girton" Waterhouse, R.A. They are two of the illustrations from Puritan Architecture (Lutterworth Press, 8s. 6d.) in which the author, Martin Briggs, a self-confessed Son of the Manse, traces the architectural history of the Puritan tradition in worship-whether Congregational or Baptist, Unitarian or Methodist-and discusses, in principle and in considerable detail, some of the

problems which face the Free Churches today in their rebuilding plans.

There is no need, says Mr. Briggs, for a free church to be either a Piper Bethel or an emasculated Pugin. The Puritan tradition in worship should inspire a Puritan tradition in design—simple, austere and appropriate. Not all the illustrations match the positive and direct distinction of Mr. Briggs' thesis, but he is a brisk and authoritative guide, and his enthusiasm succeeds in transforming what so easily might have been an essay of interest only to specialists, Into a thoroughly readable and informative book.

Equally readable and even more generously illustrated is British Achievement in Design (Pilot Press

Ltd., 3s. 6d.), in which we are guided through the well-known channels of housing, kitchens, textiles, pottery, glass and furniture. There are no surprises here for those familiar with the designs of the last twenty years, and the trip is no more adventurous than a spin on the Serpentine. But the crew are well-drilled and perform their duties with easy despatch. "Splice the mainbrace Mr. Yerbury" . . . "Lower the spinnaker Mrs. Braddell " " Belay there Mr. Carrington" . . . and if you miss Mr. Gloag on the poop—well he's off ahead buoying the channel with Missing Technicians.

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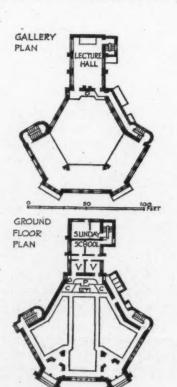
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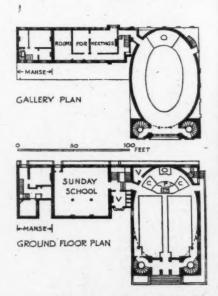
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Dropping the Pilot Press we find ourselves helpless in the turbulent tides of an emptied din-tray. From the British Regional Office of MOTCP (presided over by the new TPI president, Mr. Heck) comes a new House-Magazine called 3 & 5 complete with caricatures and cross words: from Germany an issue of the British Zone Review, illustrating the rebuilding of Munster University by its students. This month's CIAD Bulletin sports an artpaper supplement on English water-colour painters, while the first peacetime report of the CPRE—still in its





Plans of two churches designed by Alfred Waterhouse, R.A. from Puritan Architecture and Its Future reviewed by Astragal above. Left, Lyndhurst Road Congregational Chapel, Hampstead (1895). Above, the King's Weigh House Chapel (Congregational), Mayfair (1891).

uncompromising cover—discusses everything from footpaths to open towns, and from afforestation to sewers.

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From the LCC School of Building at Hammersmith comes an illustrated prospectus, and from the Ministry of Labour a trade newspaper disclosing that thirty new centres for training building workers are now opened and giving 26-week preliminary courses: from the Press Bureau of the Church of England another of those admirable pamphlets on the Care of Churches. This one, by Dr. Eeles, deals with wall surfaces and is illustrated with Do's and Dont's.

From Paris a copy of Arts and six issues of the Reconstruction review Maître d'Oeuvre, nearly every one of which contains a contribution by the familiar figures of English and American planning—Mumford and Osborn, Stevenage and Radburn, J. D. M. Harvey and Peter Shepheard, Welwyn, Plymouth, Wythenshawe—even our old friend L'Unité de Voisinage. In one issue is a pleasant article by M. Bardet on the English scene—starting his observations on the Golden Arrow. [Flêche," he remarks, "for those who have d'or."]

MOVING MADE EASY

Thumbing through the fascinating pages of the "Stranger than Fiction"

Engineering News Record recently, I came upon the pictures reproduced below. Newsily the caption pattered: "Engineered Moving Job Leaves Street Traffic Free," and the text explained how a structural engineer solved the problem of moving five floors of household crockery goods to a five-storey building across the street at Portland, Oregon, at one-third of the normal cost.

The solution was simple but highly ingenious. The company had bought a building across the street from its former headquarters, where the five floors were slightly below the corresponding ones of the building opposite, so the engineer, Mr. J. A. McDevitt, designed a boxed-in plywood bridge to span the street, 4 feet high and 2 feet 9 inches wide.

Boxes of merchandise were then merely rolled from the old building to the new and as each floor was emptied, the bridge was lowered to the next floor. The bridge was installed by sliding it out of a window and hoisting it into place by means of cables mounted on fir poles placed on the top floors of the two buildings. Six men handled the whole moving operation with great celerity and ease.

ASTRAGAL





Moving day at a Portland, Oregon, crockery store which Astragal describes above. Left, the plywood bridge spanning across the street from the old building to the new. Right, the interior of the bridge through which the goods were rolled.



LETTERS

A. B. Knapp-Fisher, Chairman, RIBA Board of Architectural Education

R. F. Brooks Grundy, B.Sc., A.M.Inst.C.E., Borough Engineer and Surveyor, Wallasey

L. F. Cave

Architectural Education

SIR.—Mr. Lionel G. Hemmings's letter on architectural education calls for a further statement on the position of the RIBA in relation, to the matter.

relation to the matter.

It was realized by those responsible for architectural education many months before the war ended that the problem of providing facilities for all the would-be students, ex-service and others, would be a serious one. The only way in which the RIBA, which is an examining and not a teaching body, could help was first by pressing the Government to provide assistance to enable such students to complete their qualifications and to find suitable employment, and secondly by arranging for the Recognized Schools of Architecture throughout the country to undertake the task of providing all possible facilities, or of indicating where facilities could be obtained locally.

facilities could be obtained locally.

Action on these lines was taken and this was set out in the RIBA memorandum on Educational Facilities for Architectural Students returning from National Service, which was published in the RIBA Journal and the professional press in December, 1944, and also in the RIBA Journal Supplement, copies of which were sent to all serving Members and Students.

ing Members and Students.

Special representations were made to the Government stressing the vital need for priority of release for architectural teachers, but the Schools have been heavily handicapped in their efforts to cope with their great task by shortage of accommodation and staff. Nevertheless, we understand there are still vacancies in the more advanced years in at least one of the London evening schools.

steps have already been taken to bring the present position to official notice. The state of affairs to which Mr. Hemmings draws attention is unfortunately not peculiar to the architectural profession. It exists in

other professions too.

Before Mr. Hemmings's letter appeared in the Architect's Journal, it was realized that further efforts would have to be made and an appeal to members of the RIBA bad already been arranged in the next issue of the RIBA Journal in the following terms: -

"Facilities for ex-Service Students:—
The RIBA is very anxious to help a growing number of ex-Service and other students to find temporary employment students to find temporary employment pending their admission to a full-time course in a school of architecture, most of which have no vacancies until September, 1947. The Institute, therefore, invites members, who are in a position to offer such employment for twelve months or so, to notify the Secretary.

It is hoped to start a service which will help both the profession—which, we know, is in need of such juniors for its offices—and students awaiting entrance into the schools.

London

A. B. KNAPP-FISHER. Chairman, RIBA Board of Architectural Education.

District Heating

-At the excellent Conference staged by the Ministry of Fuel and Power on Fuel and the Future, it was only found possible to devote one session to the subject of District Heating and, because of the rather long list of distinguished speakers, no time for subsequent discussion became available. If your space permits, may I, therefore, ask permission to submit the following obser-

(1) Reference was made to the existing Dundee Schemes, implying that houses Dundee Schemes, there were still being fully heated at a cost of about 3s. 6d. or 4s. per week. I think it should be made clear that the present charges, in 1946, are 5s. 6d. and 6s. 6d. per week for two-apartment and three-apart-ment houses respectively, that these charges do not include for any capital costs, which were wholly borne by the Government, and that in any case these houses, many of them actually flats, are not comparable in size with normal 3-bedroom post-war houses now being erected.

In other words, if capital costs were added and allowance made for house size, the comparable figures for new houses today might well be in the order of, say, 10s.

per week.

(2) The estimated cost per week for the two schemes, at 1946 prices, which the Ministry of Fuel and Power prepared per Mr. Pallot's Paper, are 11s. and 10s. 3d. per week respectively. These figures are gross, but "credits" for the omission of other fuel appliances, chimneys, etc., in the house are hardly likely to exceed 1s. 6d. per making the net figures 9s. 6d. 8s. 9d. respectively. Likewise the Man-chester Scheme is estimated to cost 5s. 1d. per week, where, with simultaneous generation of electricity, the cost of heat tion to the houses should be little or nothing; if the Ministry's figure for coal only, for direct heat generation (about 4s. per week) is added, the comparable overall cost of the Manchester Scheme is close to that of the Ministry's for a "straight heatscheme.

But, according to the Paper on the Urmston Scheme, the average inclusive price to be charged each tenant there is only 4s. 6d. per week. The disparity between the Urmston figures and the others I have previously noted is so large that I must assume that like is not being compared with like, e.g., if the Ministry's figures are correct for a fully-warmed house, then either the Urmston figures require considerable supplementation by topping up, or else "credits" are assessed at some figure far higher than nor-mal practice would appear to justify.

(3) Assuming that today's net costs of

'straight heating' schemes are in the order of 9s. per week, then the problem becomes more one of finance and policy than of direct concern to the technical engineer. are agreed that smoke abatement and a higher standard of comfort are two powerful arguments in favour of district heating schemes, but the real problem of district heating is whether a tenant should be compelled to spend more money than he may wish to or, in fact, than he does at present in, whilst admittedly increasing his own heat comfort, contributing to smoke abatement and national fuel conservancy, when, at the same time, he is deprived of the freedom of choice of his method of heating and his liberty to manage with a smaller quantity of if his pocket so dictates.

Unfortunately no technical information was presented to the Conference to indithe extent that other modern systems could or could not provide the same stan-dard of amenity, but the arguments in favour of district heating in many cases apply equally to other forms of heating, e.g., to name but one, the same standard of smokeless comfort at the same, or less, cost than district heating can be achieved by individual coke boiler and radiator systems in each house. This, of course, entails a small amount of work for each householder, but it also provides him with opportunity to regulate his heating to his individual taste and to the individual capacity of his pocket.

On these highly contentious points it must surely be a matter of regret that no lead came from the Government Ministers at the Conference to indicate whether the merits of district heating are considered of such importance nationally that freedom of choice, both as to method of heating and uniformity of cost to the tenant, should be treated as of secondary consequence.

R. F. BROOKS GRUNDY Wallasey Borough Engineer & Surveyor.

ISC Architectural Section

SIR,-Some of your readers may be interested in the following brief report of the Architectural Section of the International Student Congress which was held in Prague this summer, which was attended by 400 students representing 41 countries. The students representing 41 countries. The chief aim of the Congress was to set up an International Students' Union.

The Architectural Commission meetings were attended by Architectural Students

from many countries, including Norway, Sweden, Denmark, France, Czechoslovakia, Roumania, Bulgaria, Yugoslava, USSR and Great Britain. There were also non-architectural students acting on behalf of the architectural students of Finland, Italy, Poland, Holland and the USA.

The British Delegation to the Congress included two official representatives of the Arch. SA International Committee: Barron, A.R.I.B.A., A.M.P.T.I., chairman of the Committee, and who qualified at the Bart-lett School, and F. Kahn, secretary of the Committee. Mr. Kahn is himself a Czech, and is a student at the Regent Street Poly. The other British architectural student was L. F. Cave, of the Liverpool School, who was a delegate of the National Union of

At the meetings of the Commission each delegate presented a report on the architectural education system of his own country, and explained the organisation of their local, and national, architectural student associations. Owing to the war great diffi-culty had been found in organising architectural students on a national scale, and the only countries, present at the Congress, who had a National Arch. SA were USSR, Czechoslovakia, Sweden and Great Britain.

The chief subject discussed was the possi-

bility of starting an International Arch. SA

whose aims were to be:--To develop cultural and professional relations between the architectural students of all countries; to organize exhibitions, conferences and other activities to further international co-operation between architectural students, and the profession in general; to represent the architectural students of the world.

The idea of this international Arch. SA is mainly the work of the Arch. SA of Great Britain who, at the end of 1945, took the initiative in initiative in suggesting an international architectural students' conference to discuss this matter. The response from abroad was most favourable, but it was impossible to proceed with the scheme owing to the lack of suitable financial backing. It was felt that the 4 years we had spent in building up contacts with students abroad, and making the aims of Arch. SA known throughout the world, should not be wasted. So the British delegates put forward proposals to set up an International Arch. SA as soon as pos-

After lengthy discussion on the British proposals it was agreed to set up a Preparatory Committee to investigate the possibility of setting up such an association; to maintain contact between countries, and to initiate, at once, such schemes as student exchanges, etc. It is also to draw up a constitution for the new body, to be discussed the next international architectural student meeting.

Attempts are to be made to hold a fully representative International Architectural Students' Conference, in London, during 1947, provided all the difficulties can be

overcome.

The Commission unanimously elected as chairman of this Preparatory Committee Mr. Donald Barron, the British Delegate, who will be assisted by Mr. Laverman, delegate of the Czech Arch. SA, who will act as secretary of the committee, the headquarters of which are in Prague.

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The following committees were also set up: (1) Committee for Information-to collect full information concerning architecture, especially to make a survey of the methods of architectural education in the various countries, and publish this information.

(2) Committee for Professional and Cul-Activities-to organize international travelling exhibitions. These exhibitions to consist of architectural students' work colconsist of architectural students work col-lected every year in the various countries, and circulated during the following year in architectural schools all over the world. This committee would also organize conferences, etc.

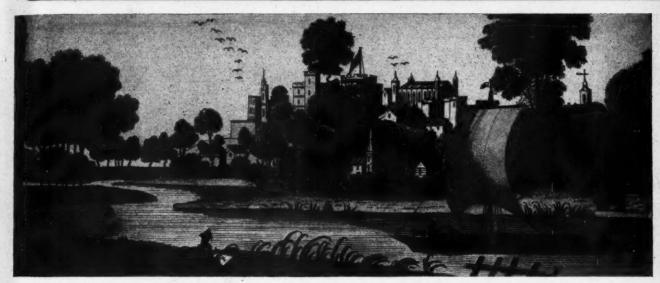
(3) Committee for Publications-to be responsible for arranging as soon as possible the publication of an international architectural student news-sheet, and to arrange for the exchange of magazines and books of

architectural interest.

(4) Student Exchange and Travel Committee-to arrange for the exchange of architectural students between schools, and architects' officers, in countries other than their own, and to arrange excursions in regions of particular architectural interest.

During the Congress the British Arch. SA and the Czechoslovak architectural students arranged what was probably the first international exhibition of architectural students' work. Exhibits were sent from all over the world, but unfortunately owing to transport difficulties we had to be content with a limited show. Although the exhibition was a complete success for a first attempt, it was not completely representative. The exhibition combined work from the Schools of Architecture of Australia, New Zealand, Fin'and, USSR, Bulgaria, France, Denmark, and Great Britain. Exhibits were also on their way from Norway, Sweden, South Africa, and the USA, but owing to the difficient of the control of t culties of transport across Europe did not arrive in time for the opening ceremony.

PHYSICAL PLANNING SUPPLEMENT



WINDSOR DEVELOPMENT PLAN FOR DEDWORTH - GLEWER

The Report and Development Plan for the Dedworth-Clewer area of the Royal Borough of Windsor, reviewed below, was approved and adopted by the Council in July, 1946, as embodying the principles which should determine the planning of the development in this part of the Borough. The Town Planning Consultants were Robert Hening and Anthony Chitty. Above, an old print of Windsor, illustrating the river beauty which the Plan seeks to preserve and enhance.

The terms of reference given to the Planning Consultants for the development of the Dedworth-Clewer area of the Royal Borough of Windsor were limited, and did not include the planning of the whole Borough. An Outline Plan for the Windsor Region is, however, in course of preparation by the East Berks Regional Planning Committee. The new Dedworth-Clewer Scheme relates to this Plan, and in fact anticipates and takes a section of it to a detailed stage to meet the urgent need of locating housing and schools. The proper development of this area is of great importance when it is realized that it embraces the design and layout of a township half as large again as the present built-up area of central Windsor.

Certain assumptions were made in the preparation of the Plan in order that conformity with regional arrangements should take place. The general principles of the Greater London Plan are to be followed, Windsor will thus remain at its present population level of about 20,000; its character as a tourist centre will be maintained; any large increases of industry will take place at Slough, rather than at Windsor; and a low and open density will be kept. Provision of new roads is necessary to improve north-south and east-west through traffic. Finally, the programme of new schools to be laid down by the Berks Education Authority in conformity with the Education Act is recognised.

roads

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The widening of the Windsor-Maidenhead Road is proposed; as existing it is narrow and dangerous particularly at the builtup end between Clewer and central Windsor. Traffic may increase on the road when a new Windsor and Eton relief road connects with it. Two other existing roads of importance in the area are the Winkfield (St. Leonard's) Road carrying a large amount of north-south through traffic, and the Dedworth (Clarence) Road which will become the major local

road for the neighbourhood—new roads proposed by the county removing through heavy traffic.

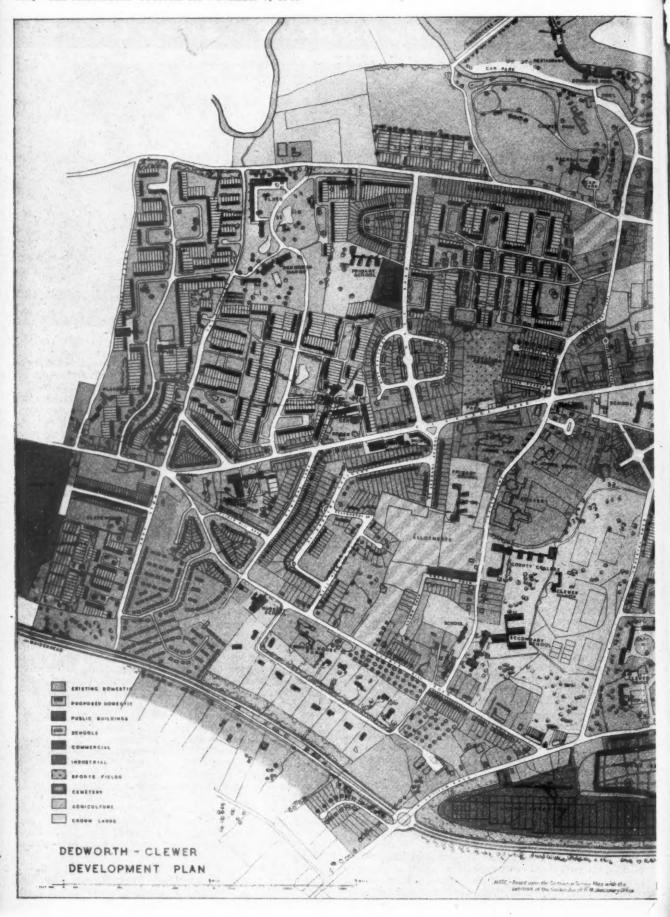
The Bucks and Berks County Surveyors and the East Berks Regional Planning Committee have provided information on the new relief roads. The Windsor and Eton relief road is proposed to follow a route which is not favoured by the Planning Consultants, for example, it severs the County Boys' School from its recreation grounds, and an alternative route is suggested. A new Staines-Maidenhead road running from Old Windsor suggests some realignment, because it may interfere with the housing sites already approved at Keepers Farm and Clewer Manor South. A new Datchet by-pass is also proposed with a new bridge close upstream of Victoria Bridge, and the widening and realignment of the road across the Home Park.

The Dedworth-Clewer neighbourhood unit has been designed to have its focus towards the western end of Dedworth Road. If this is accepted, a recommendation is put forward that the Council should meet the local bus companies at an early date to discuss frequent and convenient routes to connect with Windsor. Consideration should also be given to a reception point for market garden produce and adequate arrangements for traffic thereto.

open spaces

The Report lays great stress on the importance of the River Thames to Windsor, a precious asset for purposes of beauty, health and wealth. Apart from general advice that experts should be engaged to develop the potentialities of the river banks, a layout of riverside buildings, swimming pools, gardens and lawns is suggested for the area lying north of Maidenhead Road. Associated with these proposals is Clewer Village, forming a suitable focus for the whole of this riverside area, and great care should be observed in making any additions or alterations to the village. Consideration is given to the existence of the race-course lying on the river, which prevents public entry to a long and beautiful section of the river bank; a suggestion that the Council should acquire the course and run it as a municipal enterprise has great possibilities.

Provision has been made for a further 31 acres of public games space, and the recreation grounds that will go with the new schools are also considered for public use. The linking-up of these open spaces to give a green wedge between central Windsor and the new neighbourhood is suggested, with a fringe of housing development which may enjoy its benefits. For public gardens 18 acres have been allocated centrally, part of which adjoins the new shopping arcade and is close to a nursery school.



ARCHITECTS TOWN PLANNING CONSULTANTS.

DEVELOPMENT PLAN

The Development Plan for the Dedworth - Clewer area of Windsor, illustrated on this and the preceding page, is designed to take its place in the regional planning arrangements. The proposals in the Windsor Regional Plan and the general principles of the Greater London Plan, have been adopted.

housing

The problem in the development of the Dedworth-Clewer area has been to draw together and knit up groups of old and recent housing with the new housing schemes, public buildings, schools and open spaces. The plan is designed to permit the growth of a balanced community in the best possible environment, and to this end a neighbourhood unit of some 10,000 persons is proposed with such focal points as can be sustained in proximity to the existing life of the old town. The housing layout is on the principle of the close of 30 to 60 houses, and it is recommended that groups of not less than 4 houses should be built. A few blocks of 3 or 4 storey flats or maisonettes have been included for single persons, childless or elderly couples.

The effect of the addition of a large area of new housing to the existing services of Windsor is considered, and the extensions already in hand for the Sewage Works are adequate to deal with the future increased load. Some modification to the stormwater system will, however, be necessary. The existing water situation is not good, and either a new bore hole will be necessary, or the Metropolitan Water Board's proposed grid may eventually provide the answer. The proposed concentration of gas production at Slough seems only a matter of time now, and no difficulty is anticipated in this respect. Electricity will present no problem, and district heating is recommended for consideration.

industry

As opposed to the Greater London Plan recommendation that no further industrial development should take place within the Borough, the Consultants consider that new factories should be barred only for very strong reasons. The social advantage to be gained from the presence of certain types of trade where technical training can be allied to that given at Technical Schools is a strong reason for the introduction of some new and suitable industries. Service industry should certainly have a place in a Borough such as Windsor. Pending a decision from the regional Planning Committee, a site lying between Winkfield Road and the new Staines-Maidenhead Road has been allocated, and an alternative or additional site on the south-western fringe of the

shops and public buildings

The existing shopping centre in Windsor is already adequate to meet the requirements of the new neighbourhood unit, apart from the immediate local domestic needs which are to be accommodated in a small shopping centre in Dedworth Road. A cinema, restaurant, nursery school, rest garden and parking space are sited within easy reach. Sites for three new public houses, in addition to those already in the area, have been allocated. Public buildings include a Health Centre, a Social Centre, a Riverside Park already referred to, a cinema, a Sub-Library and Adult Education Rooms, and churches and chapels. Schools have been sited after preliminary talks with the Education Authority.

Considerable attention is paid to the methods whereby the architecture and amenities of the Plan can be directed to produce a harmonious scheme, and certain existing examples of failure in this respect in Windsor are used to illustrate the various points. Recommendations are also made for the landscape treatment, and the improvement of the existing buildings in the area. The importance of the Royal Borough of Windsor to our national heritage must at all costs require control of development to retain its unique beauty.



Police courts entrance.

WEST WING OF THE NEWPORT CIVIC CENTRE

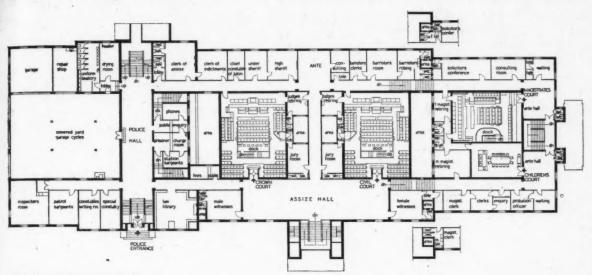
DESIGNED BY T. CECIL HOWITT

GENERAL—The function of the building is to provide accommodation for assize and law court procedure with integrated police head-quarters administration designed to admit simultaneous legal proceedings in assize, civil, magistrates, and juvenile courts with conjoint police supervision.

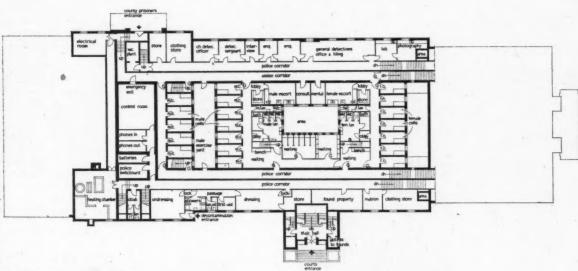
SITE—The building forms a wing to the civic centre scheme and stands on a hillside with steep falls to the south. The site holds a commanding position with an environment of national tree groupings.

PLAN—A plan of unusual complexity has been evolved to satisfy the interdependent and varied requirements arising out of contemporary procedure in law administration combined with the escalation in planning to the site inclination. It includes courts, assize and civil courts entered from the assize hall and broad processional staircase from the main west entrance, magistrates, and children's courts with ante from staircase with separate south entrance. All courts have contiguous retiring rooms for high sheriff, judges, barristers, magistrates and solicitors' clerks, jury, witnesses and law library. In the police headquarters are entrance, entrance hall, charge rooms, administrative

offices, and rooms for constabulary, detective departments, parade and recreational rooms, limited cells with enclosed exercise space accessible to docks in the courts, and garages for police cars. CONSTRUCTION—Portland stone facings unbonded and rusticated on the face, moulded at parapet level, with projecting architraves to doors and window reveals, and plinth in heavy battered rock face rusticated Derbyshire stone with drafted mould. The structure is of brickwork with hollow tile fire-resisting floors (supported on steel beams), partition walls and roof, the latter laid to falls and



UPPER GROUND FLOOR

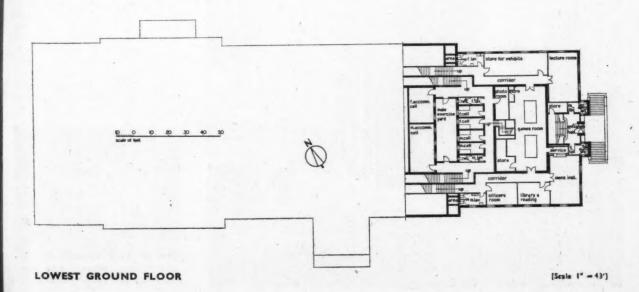


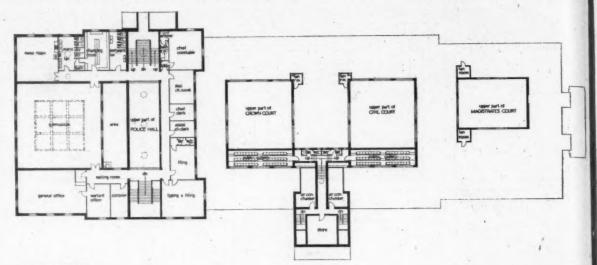
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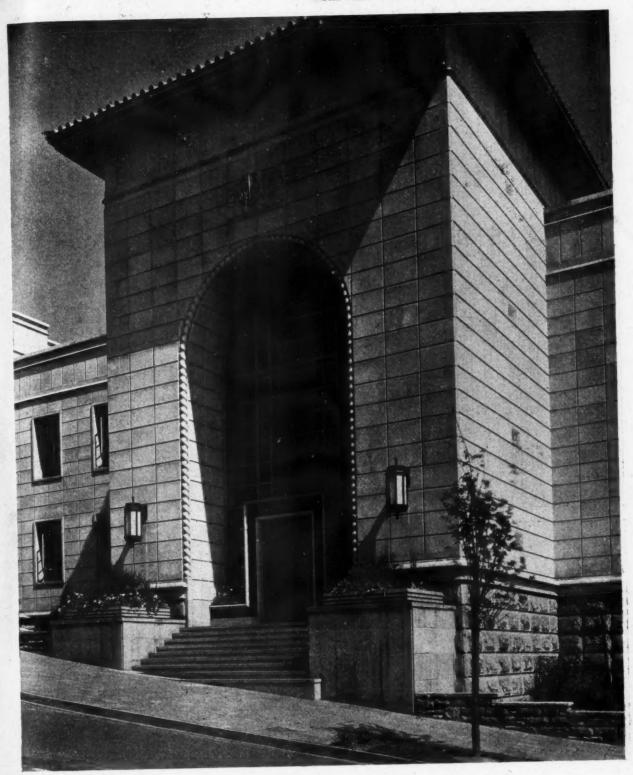


asphalted. Tower roofs are flat pitched Italian tiles with coffered hardwood soffites. In the large entrances are heavy hardwood screens, gilt finished, dark granite door surrounds, and polished teak doors glazed with plate glass with clear cut lines.

ELEVATIONAL TREATMENT -The design is an element in the civic centre group yet to be com-pleted. The use of Portland stone was a stipulation of the original competition conditions; never-the-less, it has been felt to be the most suitable material for the design. The stone carving over the entrance doorways is heraldic and has historic significance and association. The metalwork to external motifs is bronze. INTERNAL FINISH - Assize hall, police entrance hall, and four courts: Korkoid floors laid in the form of floor tiles with teak margins and line borders neutral in colour; walls, stone plaster with admixture of quartzitic material finely graded to give irridescence; ceilings, fibrous plaster with segmental barrel vaults and coffering respectively. Acoustic plaster has been applied to the interstices of the court's ceilings and the plain faces to the balcony fronts of the public galleries. Doorways archi-traves: walnut with varying tones of veneered inlays to margins;



Above, general view of west wing. Left, police headquarters entrance.



Entrance to law courts.

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wing.

skirtings, teak polished. Staircases, paved with Korkoid with bronze nosings and black riser faces. Balustrades, solid stone plaster faced baffled with teak and finished with cast bronze balustrades on cast decorative supports. The courts are completely furnished in walnut with brown hide tipup seats, the judges and magistrates chairs being carved bolstered type heavy high backed, set on sliding rails. The docks have Armourplate glazing on back and sides. The arrangement of seating and court furniture has been the subject of special study. Retiring rooms have fitted carpets, walnut furniture and chairs upholstered in dark red-brown moquette. The whole decorations are in neutral shade of cream with off white tones to ceilings. Lavatories have Adamantine light grey floor tiles

WEST WING: NEWPORT CIVIC CENTRE









Top, one of the two main courts. Above left, law courts library; centre, entrance hall, police headquarters; right, law courts waiting hall.

and cream glazed wall tiling with neutral coloured borders and skirtings. Judges' and magistrates' toilets are cream Vitrolite in small flush panels, fittings being coloured to match walls with chromium fitments. The courts are acoustically designed for speech.

SERVICES—Heating is by low

pressure hot water with separate hot water boiler for lavatories, etc., from a temporary heating chamber within the building to be ultimately transferred to a heating and ventilating plant for the whole civic centre. Courts are heated and ventilated on the plenum system, the remaining rooms being

heated by means of radiators in recesses under windows. Also installed are a vacuum cleaning plant, a comprehensive system of electrical service with signalling to cells, especially with regard to the police headquarters, and complete telephone facilities for appropriate rooms. The all of the specistaff

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INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

PHYSICAL PLANNING

2801

Road

BASIC ROAD STATISTICS, 1946. (British Road Federation, 1946, 1s.) Annual reference booklet providing detailed data on all essential road matters.

The pamphlet is divided into twenty sections giving figures, statistics and other valuable information. The following selected sections are of direct interest to the planner. Traffic Density: International Comparison: Table giving figures of motor vehicles, road mileage and motor vehicles per mile of road for Great Britain, selected countries in Europe, USA, Canada, New Zealand, Australia, etc. The date of compilation is given as January. 1939.

road for Oreat Britain, selected equinties in Europe, USA, Canada, New Zealand, Australia, etc. The date of compilation is given as January, 1939.

Growth of Traffic: Figures are given derived from the official traffic censuses carried out on class 1 roads by the Ministry of Transport in August, 1928, 1931, 1935, and 1938. The figures refer to an industrial area, an agricultural area, a residential area, and a tourist area. A table is included from the last published report of London's traffic censuses taken by the Metropolitan and City of London police on a weekday in July, giving comparative figures for the average daily number of vehicles passing Hyde Park Corner, Oxford Circus, Elephant and Castle, and Blackfriars Road for the years 1904, 1912, 1919, 1931, 1933, 1935, 1937, and 1939.

Classified Roads: Table showing mileage, cost of maintenance and traffic densities for class 1 and class 2 roads for the years 1911 to 1939. 4.456 miles of class 1 roads at March 31, 1939, were trunk roads. In April, 1946, a further 3,685 miles of class 1 roads were designated trunk roads. No further details of other roads have been published. The figures of costs cover maintenance, repair and minor improvements; they do not cover major repairs or new construction.

Motor Transport and Legislation: This section gives brief outlines of the Road Traffic Act, 1930; the Road and Rail Traffic Act, 1933; the Road Traffic Act, 1934; and the Road Haulage Wages Act, 1938.

the Road Haulage Wages Act, 1938.

Road Finance: Further information provided in this section refers to the Trunk Roads Act, 1946, and to the proposed highway development as announced by the Minister of Transport in the House of Commons on May 6, 1946.

2802

Transport

Transport. F. P. Antia. (Oxford Pamphlets on Indian Affairs, No. 34, Oxford University Press, 1946, 9d.) Account of transport position in India based on latest available data, urging need for closely co-ordinated system of development.

The pamphlet examines the existing transport facilities in India, and shows that while the country has a fairly adequate network of railways, other means of transport, such

as roads, inland waterways, coastal shipping and civil aviation have not developed to a comparable standard.

weloped to a comparable standard.

The need for road development, particularly the importance of developing rural roads, is being increasingly realised. At a conference of chief engineers, held in 1944, the Nagpur Plan was evolved. This plan calculates India's present road requirements at 400,000 miles, consisting of 25,000 miles of national highways and trails, 65,000 miles of provincial highways, and 310,000 miles of district and village roads. The programme, comprising new construction in some cases, and reconstruction, resurfacing and general bringing up of the standard in others, forms part of the Government of India's proposals for postwar reconstruction.

Coastal shipping and inland water transport have both suffered until recently from railway competition and policy. It has, however, been announced recently that the Government is examining the possibilities of developing inland waterways and coordinating them with rail and road trans-

Efforts to develop civil and commercial aviation in India are of very recent origin. Plans for post-war development have been laid down in an approved ten-year programme of aerodrome and air-route construction, envisaging a network of 111 well-equipped aerodromes and landing grounds, of which 24 are to be newly constructed.

In conclusion, it is stated that the various instruments of transport have to be regarded as component parts of a vital national service, complementary to one another, and not as independent and competing units if India is to obtain the maximum service at the minimum cost.

STRUCTURE

2803

Door Locks and Latches

Schedule of Sizes of Locks and Latches for Doors. British Standard, 455:1945. (British Standards' Institution, 3s. 6d. post free.) Dimensional standards only for latches and locks. Object is to permit preparation of woodwork and interchangeability in use on doors made to B.S. 459, Part I, and B.S. 644 in housing work.

MISCELLANEOUS

2804

Housing Digest

HOUSING DIGEST: AN ANALYSIS OF HOUSING REPORTS, 1941-1945. Prepared by the Association for Planning and Regional Reconstruction for the

Electrical Association for Women. (Art and Educational Publishers, 1946, 15s. 0d.) Objective presentation of official and unofficial statements and information on housing contained in various reports published between 1941 and January, 1945. Standards. Training for home management. Housing types. Siting. Services. Internal layout and equipment. Illustrated. List of references.

This book takes the form of a compilation of verbatim quotations from important published material on housing. Extracts from official and Government reports are shown in blue, extracts from other sources in black.

The digest begins with quotations discussing desirable standards of housing, construction, equipment and design, including a section on smoke abatement. This is followed by selected views on training for home management dealing with the place of women in local government; with the necessity for trained housing managers for municipal estates; with the treatment of the problem family within the community, and with the teaching of domestic subjects.

Opinion of types of houses stresses the need for providing for various types of families and for single and elderly people. Con-

Opinion of types of houses stresses the need for providing for various types of families and for single and elderly people. Controversial issues discussed include the problems of houses versus flats; of semi-detached versus terrace houses; and of temporary versus permanent houses. The conversion of houses to relieve the general housing shortage is also dealt with in this section.

Views on the architectural setting of houses; on the adequate provision of gardens and open spaces; and on neighbourhood layout underline the importance of siting, environment, and community life for new housing development.

A further section deals with the essential mechanical services required for any size of housing group. Aspects discussed include water supply; refuse disposal; artificial lighting; heating together with the supply of hot water, heat insulation, district heating, and lastly the provision of lifts

ing; neating together with the supply of hot water, heat insulation, district heating, and lastly the provision of lifts.

The internal planning of houses is examined in a selection of views on space requirements; on types of windows, and built-in cupboards; on fuel storage, outdoor storage facilities and garages. Efficient power installations including the position of meters and intakes; wall and floor finishes, and precautions against vermin infestation are further aspects dealt with.

In conclusion a section on kitchens and service rooms quotes views on kitchen planning and equipment; on indoor laundry facilities, and on bathroom layout and equipment.

The digest provides a thorough and well presented opinion survey of desirable housing standards. The sections on services, internal planning, kitchens and bathrooms are the most useful from a factual reference point of view.

2805

Bathing Establishment

DESIGN FOR THE POST-WAR BATHING ESTABLISHMENT. William C. B. Smith, A.R.I.B.A. (Paper read at the Annual Conferences of the National Association of Baths Superintendents, May 15, 1946.) Suggests that future baths should form part of group of recreational buildings. Siting considerations. Natural lighting, advantages of side lighting. Needs for acoustical treatment. Some planning points. The value of wave machines.

This rather general paper raises some interesting points. In particular the author questions the desirability of continuing with

the normal rectangular main pool, suggesting that since a high percentage of people are always found at the shallow end some alternative shape would be more economic. He also questions whether diving boards should be fitted to the main swimming pool. There are some brief references to lighting, wave machines, decoration and other aspects, and a good deal of emphasis is placed on the need for the proper acoustical treatment of indoor baths. It is suggested that clerestory lighting all round, with additional side windows to the south, would be better than the more conventional roof lighting. Not only would condensation troubles be less of a nuisance, but an uninterrupted flat roof could be used. This roof might be used for sun bathing and a restaurant, and the large area of flat ceiling might be used for acoustical correction. is curious that in a paper with such a freshness of outlook there is no reference to methods of heating. The author's opinions on the value of low temperature radiant heat, such as has been used in some baths, e.g., at M.I.T. in Boston, USA, would have been useful.

Underground Services

LOCATION OF UNDERGROUND SERVICES. Report of a Joint Committee. (Institution of Civil Engineers, 1946, 6d.) Recommendations for standard location of underground services in streets. Covers electricity, gas, water, telecommunications. Location of sewers and trunk mains. Disadvantages of kerbside tree-planting. Need for coordination of work, standard plans.

The Report recommends that service mains should be laid in the following order from the highway boundary to the kerb line: Electricity, then gas, then water, and tele-communications nearest to the kerb. A minimum width of 10 ft. 6 in. on both sides of the street is felt to be required for an orderly disposition of mains, and to allow space for subsequent access. This width also allows room for lamp standards. A reduction to 6 ft. 0 in. might be made in less congested areas, but the reduced width

is not favoured.

The use of service subways is considered, but these are not favoured, except for busy traffic crossings, owing to high capital cost, difficulty of drainage, and other disadvan-tages. It is felt to be impossible to include sewers in such a standard scheme; the reasons for this are discussed, and recommendasons for this are discussed, and recommenda-tions made for sewer location. The com-mittee is strongly against the planting of large trees in streets, owing to the damage their roots can do to buried services; suitable shrubs are suggested as an alternative. The need for close co-ordination of work is stressed, and it is suggested that the Highways Authority is the appropriate body to act as co-ordinator. Each supply authority should keep detailed record plans to standard scales. dard scales

An agreed method for location of under-ground services has long been needed. The committee which drew up this Report represented the Ministries and Institutions concerned, thus giving their recommendations

special force.

LIGHTING

Lighting and Air Conditioning

LIGHTING AND AIR CONDITIONING. Howard M. Sharp. (Lighting and Lamps, January, February, April, 1946.) Three articles dealing with relation of lighting to heating. Particular reference to air conditioning. Numerous tables of heat input, etc.,

due to lighting.

These three articles stress the need for co-operation between lighting and heating engineers. The first part (January) deals operation between lighting and heating engineers. The first part (January) deals with comfort conditions, the different types of heat and methods of measurement of these and the use of the well-known Psychrometric Chart of the American Society of Heating and Ventilating Engineers. Part 2 (February) discusses heat loss and gain through walls, floors and roofs, and gives a good deal of information about the effects of sun heat under USA conditions, including some useful information about the time lag with various types of structure. It also gives tables of heat output due to human beings engaged in varying degrees of physical exertion and also with heat gain from equipment and appliances. Part 3 (April) covers heat gain from arices. Part 3 (April) covers heat gain from lighting installations and includes a number of interesting tables in which light intensity is given in terms of watts per sq. ft. which means that direct comparison for British means that direct comparison for British conditions is possible. The difference in effect of different types of lamps is discussed. A specialist article but of considerable general interest, particularly to architects concerned with air conditioned buildings and with buildings having a high intensity of artificial lighting. of artificial lighting.

HEATING Ventilation and

Intermittent Heating

SOME EXPERIMENTS CARRIED OUT WITH INTERMITTENT HEATING. Carried out by the Building Research Station. (J. Inst. of Heating and Ventilating Engineers. Vol. 14, No. 135, May-June, 1946, p. 103.) Description of experiments to determine effect on heating of panel linings to rooms. Full description and results, with graphs and tables.

These experiments confirm and amplify results of earlier tests. Heating tests were carried out in an experimental room under controlled conditions of exposure. Heating methods used were gas fire, electric convector fire, electric tubular heaters and electric reflector fire. Both ventilated and unventilated rooms were tested. In each case the room was tested first unlined and then lined with wall panelling. Test periods were for six hours, thus showing the effect of panelling both upon the rate of warming up the room and upon the subsequent heat requirement. General conclusion is that the panelling was of considerable value both during warming up and subsequently

Natural Ventilation

THE NATURAL VENTILATION OF UN-HEATED "CLOSED ROOMS." Carne, B.Sc. (Journal of Hygiene, Vol. 44, No. 5, May, 1946.) Experimental investigation of air changes in rooms with either flues or wall gratings.

Results are given of a large number of measurements of air changes in two rooms of differing aspect, and comparisons are made between ventilation rates obtained of differing aspect, and comparisons are made between ventilation rates obtained with flue openings of various sizes or with wall gratings of 50 sq. in. aperture. The effects of variation of wind direction and wind speed are studied. Conclusions are that a chimney flue with base opening of 15 sq. in. is on an average as efficacious as a wall grating of 50 sq. in. Apparently the

rates of ventilation depend to a considerable extent upon both speed and direction of wind and in this respect the results differ from earlier studies by other workers. The author suggests reasons for this. It seems that provided the flue area is equal to the area of fortuitous cracks around windows and doors no increased rate of ventilation results from a further increase in flue size. This emphasizes the fact that a good ventilation system requires both an inlet and an

The whole of the experiment relates to rooms with doors and windows closed and

without heating.

Small Cinema

HEATING AND VENTILATING A SMALL CINEMA. (Arch. Record, June, 1946.) Part of series of technical notes on small cinemas of about 400 seats capacity. Brief discussion of requirements.

This one-page article discusses the heating requirements for small cinemas in USA and considers summer cooling as well as winter heating. A good point is made about panel heating, viz., that heat requirements in a cinema are apt to fluctuate rapidly owing to quick changes in audience size. Under these circumstances the comparatively slow response of panel heating systems may be a disadvantage in the auditorium. It is also pointed out that, since a good proportion of the heat input is required for the pre-warming of the cinema before the audience arrives, the particular claim of panel heating as being the most comfortable method hardly applies.

QUESTIONS and Answers

THE Information Centre answers any THE Information Centre under the dilding, question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: The Architects' Journal, 13, Queen Anne's Gate, Westminster, S.W.I.

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Housing Cost

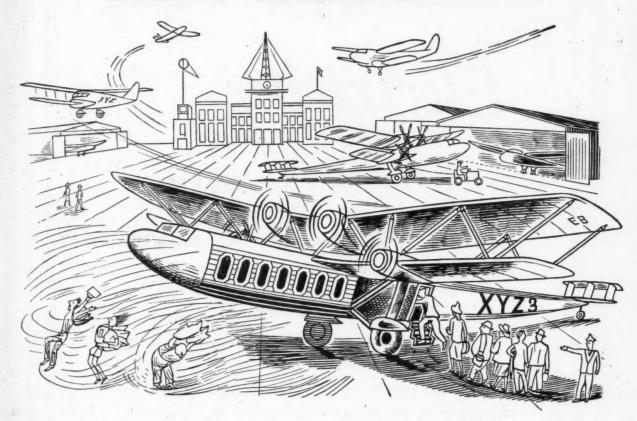
Q What is the present day cost per cubic foot for housing which pre-war cost is. 6d. per cubic foot? Would the cost of housing based on these cube prices be acceptable for the purposes of applications to Local Authorities for Building Licences?

A An approximate price for the cube of a house is 2s. 6d., but calculations based on this are not sufficient for application to the Local Authorities for a Building Licence.

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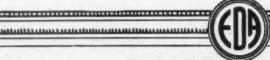


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Electricity, which was the mainpower behind the production of munitions of war, is now a prime necessity in the building and equipment of the new and better homes for peacetime Britain. Electricity is no longer a luxury to be enjoyed by a few; it is the main source of that comfort and cleanliness to which every householder is entitled. And, in addition to being indispensable, Electricity is able to meet-and is meeting the hundred and one demands which indispensability entails.

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The Electrical Section at the Building Centre, Maddox Street, London, W.I, provides interesting illustrations of electrical application in domestic and industrial premises.



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This special section is virtually a resumption of our pre-war Trade Notes. It now covers a wider scope, however, under a new title recording not only the marketing of new designs and the reappearance of familiar products, but also the general trend of developments within the industry. Manufacturers who have new designs in hand or any other news of interest to architects are invited to send full information to the Editor.

INDUSTRY

[by Philip Scholberg]

NEW MULTI-POINT WATER HEATER

In last month's notes on Britain Can Make In last month's notes on Britain Can Make It, I referred very briefly to the first appearance of the new De La Rue water heater, about which there have been rumours for a year or more; there was an illustration of it in this Journal on September 26. The most noticeable departure from the now almost standardised heater layout is the incorporation of the draught diverter within the casing, which overcomes the inevitable "added on" look of the usual hood. It has the slight disadvantage that the casing looks somewhat larger than the more usual but the front outlet should reduce wall staining and it makes possible a built-in model without any great difficulty. Models of this type, incidentally, are being made and will fit the BSS kitchen cabinet dimensions.

dimensions.
Output is 3½ gallons of water a minute raised 40° F. with a gas consumption of 3½ cubic feet, and the heater conforms to the appropriate BSS for combustion, flue sizes, etc. The casing has an easy clean plastic finish, and is detachable in one piece for easy maintenance.
(De La Rue Gas Developments, Ltd., Imperial House, Regent Street, London, W.1.)

COLOURING CEMENT

A new process for colouring cement ren-derings, concrete or rough cast has recently been evolved by Sealocrete Products, a firm already well known for their hardeners and waterproofers. The colours are produced under the trade name of Sealantone and are under the true name of Seatantone and are sold in liquid form with the colours in a very finely divided state. The existing range consists of nine colours, including a black, and the colours can be mixed. Used in conjunction with either ordinary Portland or white cement an almost infinite variety of colours is therefore available. On the of colours is therefore available. On the site the liquid is diluted with three times its own volume of water and then added to the gauging water until the desired colour is obtined. The actual proportion of colour to gauging water will obviously need a cer-tain amount of experiment, especially if two tain amount of experiment, especially if two colours are mixed, but once the correct proportion is determined it should not be particularly difficult to keep it constant. The manufacturers stress the fact that the colour actually combines with the cement and hardens it, giving a water, grease and oil resistant surface similar to that produced by the firm's other product, Sealocrete, though the two materials are not, of course, the same. the same.

Cost is a little difficult to assess. The price Cost is a little difficult to assess. The price is from 12s. 6d. a gallon upwards, according to colour, but the actual amount used will naturally vary with the strength of the finished colour required, the paler shades needing less colour. The address of the manufacturers is Atlantic Works, Macbeth Street, Hammersmith, London, W.6.

CONVECTED HEAT

Most architects are by now more or less familiar with the current ideas on back-ground heating for the small house, and it may be assumed that warm air ducts to the upper floors will soon be standard practice



The Rad-Vec grate, a variation of the common back boiler taking the form of a small water tube unit of welded pipe, will feed radiators at the same level or on upper floors to provide back ground heating.

in all new work. On the other hand, it is difficult to see what can be done for the existing house, where the cost of installing the necessary ducts would be considerable, even though it might well show a saving the contract of bloomers and the contract of the contract in costs as part of a long-term policy. There is, as a possible solution, the Projector grate produced by Allied Ironfounders, but this provides convected warm air only in the room in which it is installed. The illustration on this page shows a comparatively new device known as the Rad-Vec, which can be installed in any existing grate withcan be installed in any existing grate with-out an excessive amount of cutting away and making good. The idea is a variation of the common back boiler often used for water heating and takes the form of a small water tube unit welded up from pipe and installed in place of the ordinary grate. This will feed radiators at the same level or on upper floors and thus provide the necessary background beating or it can even be used background heating, or it can even be used as an auxiliary to the existing hot water system. The latter purpose, however, seems to me, to need an indirect cylinder in hard water districts as it will be extremely diffi-cult to remove scale from the tubes, but a closed radiator circuit should give no trouble. The manufacturers are Swinton Dickenson and Anson Accumulators, Ltd., 41, Kentish Town Road, Camden Town, London, N.W.1.

WAR EFFORT

The first examples of what will doubtless be a spate of booklets describing the industrialists' war effort are now beginning to appear, and one of the first to reach me comes from Thomas W. Ward, a firm which most architects probably associate with

steelwork. But they are scrap merchants, shipbreakers, machine tool manufacturers and a host of other things, with subsidiary firms which I will not attempt to count. you want a battleship cut in half or a railway or a naval gun turret or a midget subway or a naval gun turret or a midget sub-marine or a reaper and binder, or just bricks and cement and a crane or two you will find that Wards, or one of their limbs, do that sort of thing as a matter of routine. In the ordinary way I find that I am a shade allergic to the rapturous applause with which some manufacturers hand them-selves elaborate bouquets. It is fair, there-fore to add that this particular effort is

fore, to add that this particular effort is pleasantly factual and produced with a minimum of ballyhoo. (T. W. Ward Ltd., Albion Works, Sheffield.)

HIGH FREQUENCY HEATING

Some months ago I suggested that the high Some months ago I suggested that the high frequency cooker was a long way off and that a lot of nonsense was taked about electronics in general. Now comes an excellent booklet from Philips Lamps called The ABC of High Frequency Induction Heating. The whole subject is mainly of interest to the industrial designer, but this booklet forms a very good outline of the various processes and will give anyone of normal intelligence enough knowledge to understand a good deal of what the expert is talking about, since it is written for the works manager rather than for the elecworks manager rather than for the electrician or the radio expert. There are plenty of clear line drawings and the escential technical data is presented intelligibly without being "popular" in the daily newspaper sense. A good effort. Copies from Aboyne Works, Aboyne Road, S.W.17.



Speeches and lectures delivered before societies as well reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front Except where inverted commas are used, the reports are summaries, and not verbatim.

MARS

P. J. Marshall

October 25 at 66, Portland Place, W.1. Lecture sponsored by the Modern Architectural Research Group on SATO AND A BURMA PLAN, by Major P. J. Marshall, General Secretary of the Service Arts and Technical Organisation.

P. J. Marshall: average British Serviceman found little ease for mind or body in The standards of everything were low, and there were numerous personal discomforts of climate, disease, insects and many another. On walls and pavements large notices saying "Quit India" were scrawled and only too eagerly would one have agreed with their simple request. At that time, however, one was sent to India for the duration of hostilities, with no word of Repatriation. Not only was one isolated from normal contacts and family life, but the mail was extremely erratic (technical Journals frequently took over a year to arrive, if they ever did arrive at all) and there were practically no Service Welfare or Educational facilities—even in 1944 Lord Munster was very critical and there was always the liability of being moved a thousand miles at a day's notice. Even if was possible to get through the invisible military barriers to make civilian contacts, one found that the position regarding technical matters in India was profoundly un-satisfactory. Technical Organisations such as the Indian Institute of Architects, were only small Bombay societies: in the whole of South Asia there was only one small School of Architecture, and no facilities for the study of Town and Regional Planning at all.

Towards the end of 1942 a small group of Service Architects met in Poona, and, after making a survey of the position, decided to form an Association to be known first as the Service Architects' Organisation (SAO), and later, when a fabric had been created, to widen it to include all technicians and artists. It was decided to build up a network of Groups of Service Architects in the larger military bases, and posts in isolated places and units in the field. A later development was the founding of Service Arts Clubs as cultural and education centres.

Clubs as cultural and education centres.
Generally, the aims and objects of the new organisation were to be as follows:—
(1) To regard the war as a first priority;
(2) to form a collective body of united

technicians, initiated by architects;
(3) to assist Technical and Trade Educa-

(4) to develop Public Relations for Planning and De ign:

ning and Delign;
(5) to keep Service Technical men in touch with their civil work;

(6) to assist in any way the countries in which members found themselves.

Altogether there were in 1943 over twenty Clubs and Groups, and over one thousand members. Groups developed first in the Military Depots and along the main Lines of Communication, the early ones being Poona, Calcutta, Delhi, and Lahore. These were followed by Sialkot in the north, Quetta in the north-west, Bangalore in the South, Colombo in Ceylon, and then Imphal right up in the fighting area. In some cases such as at Delhi and Calcutta, Groups began in co-operation with the representatives of the Indian Institute, and in all cases their programmes consisted of regular lectures and discussions on technical problems.

At the beginning of 1943 the General Secretary arrived in Calcutta, which became the main headquarters of the organisation.

Among many activities a scheme was drawn up with the Service Education Officers for giving talks to units. In carrying it out members always went as experts in their own particular field, and this was accepted eagerly as a change from the normal officer-led educational discussions, where the officer read up a stereotyped pamphlet beforehand and often found he knew much less than his listeners about the subject.

A technique was adopted, too, which proved to be remarkably successful. The audience was turned into the Reconstruction Committee of their own Town Council, and the experts become their own Council officials.

Finally there was the question of as istance to India on technical problems. It was soon discovered that the Empire's second city had neither Architectural Society nor School of Architecture, and so efforts were made to interest the public in this need. A Mr. S. C. Chattergee soon came forward: he had been striving to start a school in Calcutta for twenty years, and had a large number of supporters. A memorandum proposing four faculties for India was submitted to the Government of India, and the scheme is now under consideration by the All India Council for Technical Education.

Towards the end of the year the need for accommodation became essential, and so, with the co-operation of the Service Welfare and Education Departments and many civilians, the organization started the Service Arts Club in the centre of Calcutta.

vice Arts Club in the centre of Calcutta.

A pressing need for all members was for information of all kinds. The General Secretary sent a regular monthly sheet to Group Secretaries, and a less regular information circular to all members. In this circular sugge tions were made for Village Surveys, Exhibitions for Forward Areas, and opinions of other Groups passed round. Groups, too, sometimes duplicated and circulated their summaries of discussions.

Another need was for illustrations to lectures and discussions, and here the Architectural Press an wered our call by sending out a gross of their brilliant booklet, Towards a New Britain, which proved to be a potent propaganda weapon. Throughout the war the organization owed a debt of acknowledgment to the Service Press, especially the newspaper SEAC, which printed many articles, photographs and news items of Group activities.

The General Secretary persevered in his attempts to give the organization official status, and as each new organizational change was made at GHQ, sent in applications to this effect. By this time, too, three technical bodies in England, namely the RIBA, ABT, and APRR, had taken up the case, and formed a joint committee to approach the War Office. Although they met with no success in this direction, they proceeded to give direct assistance in the best possible way, by sending out text books and journals, which were greatly appreciated by all Groups.

At the end of 1944 it was decided to change the name of the organization in view of the wide variety of technicians, artists, and others who were supporting it. A vote taken showed a majority in favour and so the SAO became the SATO or the Service Arts and Technical Organization.

Early in 1945 the General Secretary, from

Early in 1945 the General Secretary, from his isolation in North Burma, began to despair of ever achieving any official results from GHQ. Accordingly he wrote to the GOC in C ALFSEA putting the case before him for consideration, but the only reply in this case was a disciplinary rebuff.

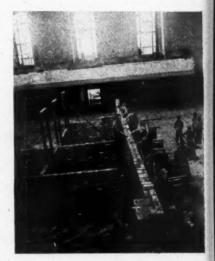
A further appeal was made to the newly appointed Welfare General in charge of all Welfare Services, but once again the proposals were not considered practicable. A statement was then sent to over 100 technical bodies in Great Britain, setting out the position, and suggesting that urgent action be taken.

At the conclusion of hostilities SATO HQ was at 4 Corps HQ in Pegu, 45 miles from Rangoon, and in September the War Minister himself arrived on a tour of military units. A memorandum was at once handed to his aide, proposing that SATO should set up Polytechnics for the Servicemen. At about this time 4 Corps held an Education

Conference at which the Divisions put forward extensive demands, chiefly for Technical and Trade Education. The Education chiefs present declared that nothing could be done except on a purely local basis. (This means that nothing could be done.) But SATO were then invited to speak and offered to set up a Polytechnic immediately. The offer was accepted, and one of SATO's oldest and most active members, Major Tatton-Brown, made a brilliant job of it.

The following month a similar Conference was held at 12th Army HQ in Rangoon, and the Education chiefs again made their negative points. Unfortunately there were no SATO representatives present at the meeting, but afterwards a memorandum was submitted to the GOC with proposals based on the Pegu success. These proposals were accepted, and SATO was at last officially recognised, in the recent battle area, if not at the base headquarters.

As a result of the enthu iastic work done by so many members of the Pegu Group, SATO was entrusted with the job of creating a Polytechnic. (Both this and the later-Rangoon Polytechnic require a separate paper to describe them: suffice it to say that they proved SATO's often repeated claim that technical training could be made available to the Forces in the East.) At the end of their course the Pegu students built a mobile exhibition of their work which was tremendously popular when it was shown to Rangoon, and of the various exhibits not the least interesting was the one which depicted the SATO Record, and its many attempts to obtain official support.





Top, British and Indian soldiers learn bricklaying at the SATO Burma Polytechnic by building a model Indian house designed by SATO Architects. Below, the studio of the SATO Service Arts Club, Darjeeling. See Major Marshall's lecture on this page.

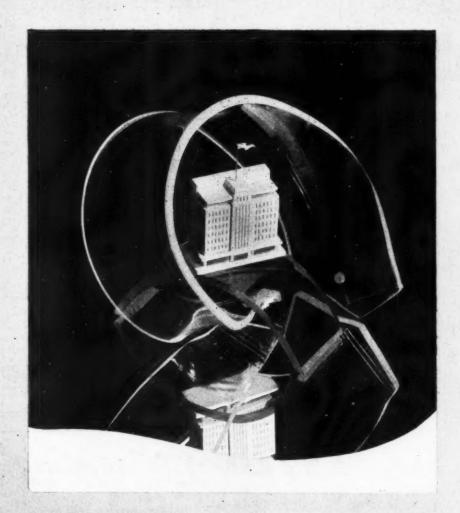
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As soon as the Rangoon Polytechnic was started it became the main headquarters of SATO, and more assistance could then be given to other Groups. For instance, complete sets of Course Lecture Summaries were circulated not only to Groups, but to isolated students as well. One of its first productions was a 12th Army booklet on a Village Course for Indian Soldiers, and this was followed by a series of posters and two small exhibitions.

Two more things were felt to be necessary: one was the old SATO idea of joint Service/Civil education, and the other was the need to carry out some practical reconstruction work, preferably in a blitzed Burmese town. For this reason Majors Tatton-Brown and Marshall interviewed HE the Governor, with rather unexpected results.* Although the ideal of an International Polytechnic never materialized, at least some assistance was rendered to Burma.

Of the Groups in India, the Calcutta Group ran a series of Technical Courses, and, determined that its three years of propaganda work for planning should not cease with the end of the war, helped to start the Bengal Planning Group, an unofficial civilian body devoted to Planning Research and Propaganda.

During 1945 two new Service Arts Clubs were started by SATO. One was in Ranchi, and at their first Exhibition, General Auchinleck himself praised "the work of SATO men." The other was 7,000 feet up in Darjeeling, had a well equipped studio with a full-time instructor, and was extremely popular with British, American and Indian Servicemen.

In the new Occupation areas Groups sprang up both in Malaya and Hongkong, and the latter bids fair to leave a permanent contribution with the resident Chinese, as it was transformed into a civil body in a similar manner to that of Calcutta.

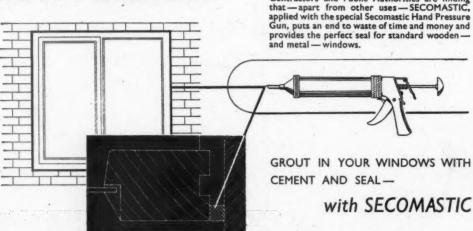
The last of the SATO members are now returning from India and South East Asia, and as a network of live and active Groups, the Organization no longer exists. Judging from the letters which the General Secretary continues to receive many people are wondering whether something of a similar nature cannot be done in peacetime.

Perhaps the most obvious lesson which could be learned from the experience of the Organization is that it proved that people will work voluntarily and unselfishly for a common idea which they regard as being of sufficient importance. Another lesson was the need for a strong technical organization, which must be built up from below and should always have a clear cut policy and objective. Further, that unity among the technicians and creative men is essential, and that this should begin at the student level. Again, that technical education and qualifications are problems of urgent international concern and are badly in need of a thorough reorganization. Also, that good Public Relations are probably 50 per cent. of the battle for good planning and design. Finally, the necessity of a high degree of social awareness and responsibility among the technicians.

Therefore, all ex-SATO members are advised to make their own professional and technical institutes progressive and co-operative, to join as students their own student bodies (such as the Architectural Students' Association) and as qualified men the Association of Building Technicians, to help research bodies such as the MARS Group and the APRR, to develop a social awareness of the problem of the people, and lastly to retain one of the few positive results of the war—a world view.

A.J. 7.11.46 • See A.J. May 2, 1946.





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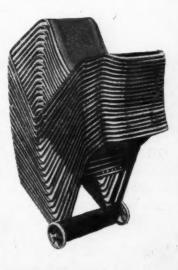
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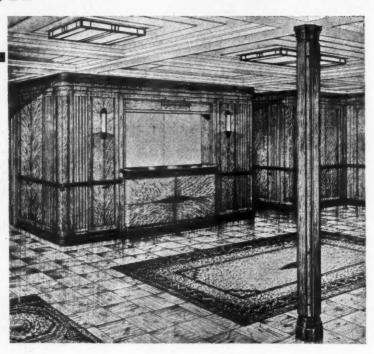
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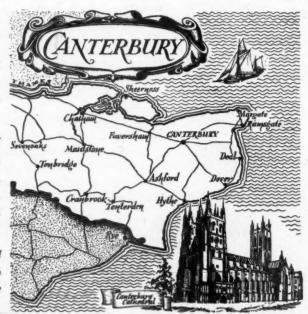
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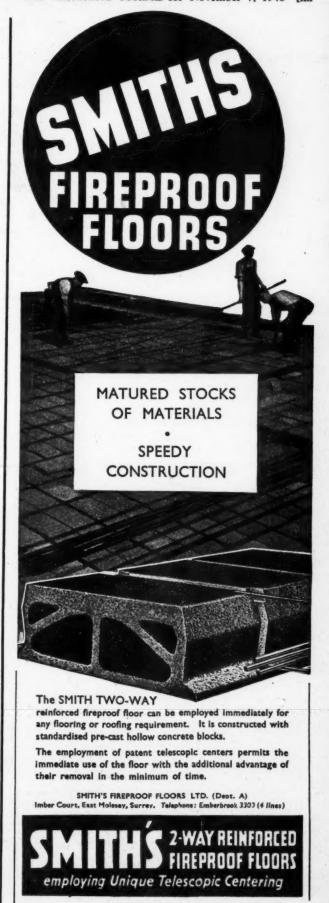
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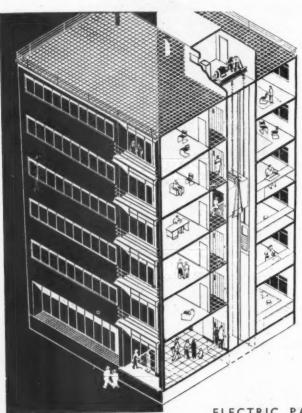
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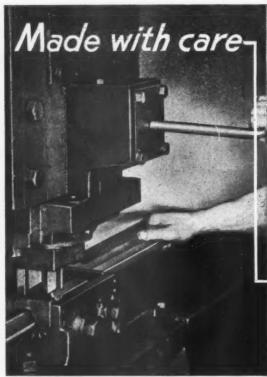
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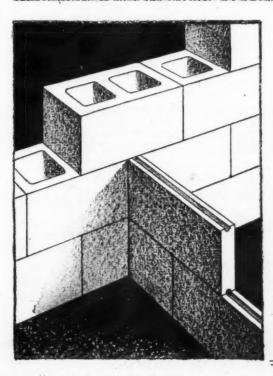


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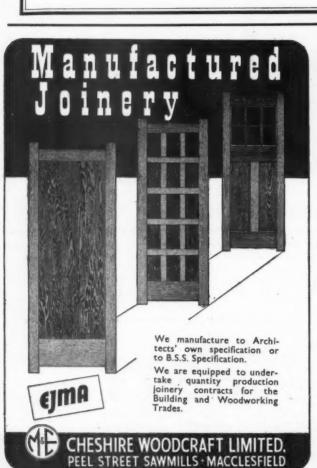
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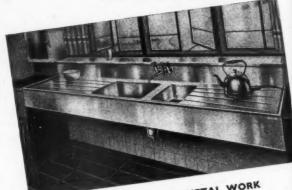
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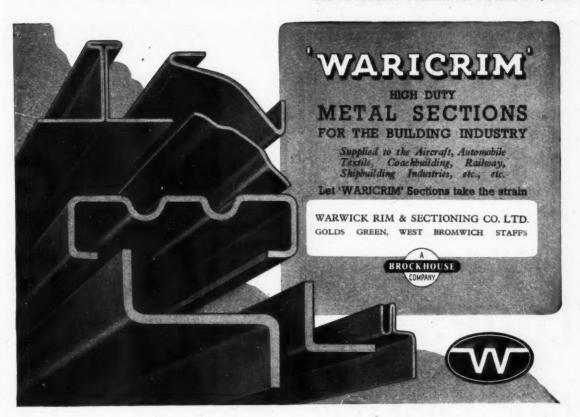
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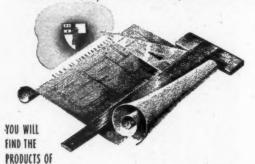


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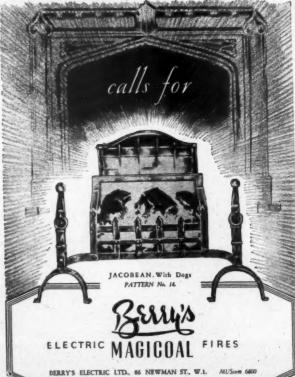


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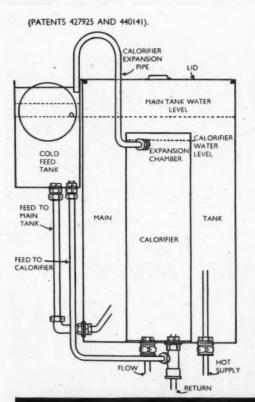


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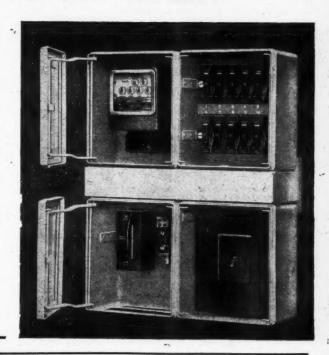
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Advertisements should be addressed to the Advi. Manager, "The Architects' Journal." War Address: 45 The Avenue, Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam,

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS LAMINTAINS a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDERSS: 75, EATON PLACE, LONDON, S.W.1. TEL. SLOAME 5615. 991

LONDON COUNTY COUNCIL

Applications are invited for the following posi-

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required

for:

(a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (funior).

domestic buildings and general working (junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL).

AND JUNIOR DRAWING OFFICE ASSISTANTS, Required for:

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

(b) Similar work in connection with schools and hospitals.
(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.
(d) Assistants to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.
(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 65s, a week, plus cost-of-living addition.

perience, up to 65s, a week, plus cost-of-living addition.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for, modesn hot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

Ex-Service candidates with experience prior to

Provident Fund.

Ex-Service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies.

947

BOROUGH OF NELSON.

Applications are invited for the appointment of SECOND ARCHITECTURAL ASSISTANT, in the Borough Surveyor's Department, at a salary in accordance with Grade IV of the National Scale, £420—£15—£465, plus cost-of-living bonus, at present £59 16s. per annum. Candidates should have had experience in housing and general work. Applications, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant," with copies of three recent testimonials, must be delivered to the undersigned on or before Saturday, 16th November, 1946.

F. W. ROBERTS, Town Clerk.

Town Hall, Nelson, Lancashire. 24th October, 1946.

SURRRY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:-

PRINCIPAL ASSISTANT ARCHITECTS: Commencing salary £800, rising by annual increments of £25 to a maximum of £900,

Applicants must hold either a degree in Architecture or be Members of the Royal Institute of British Architects, and should have had a good experience in the control of staff, organisation of work, and had a good training and an adequate experience in the design and construction of modern buildings. One of the appointments will require a specialised knowledge of the design of school buildings.

The following appointments will carry a cost-of-ving bonus, at present £59 16s., and London llowance of £20 per annum.

ASSISTANT ARCHITECTS (Grade VIII) :

Commencing salary £625, rising by annual increments of £25 to a maximum of £700 per

Applicants must hold either a degree in Architecture, or be Members of the Royal Institute of British Architects, and have had a good training and an adequate experience in the design and construction of modern buildings.

ASSISTANT ARCHITECTS (Grade V):

Commencing salary £460, rising by annual increments of £15/£20 to a maximum of £510 per

applicants must hold either a degree in Architecture or be Associate Members of the Royal Institute of British Architects, and should have had a good training and an adequate experience in the design and construction of modern buildings.

ARCHITECTURAL ASSISTANT (Grade I) :

Commencing salary £330, rising by annual increments of £15 to a maximum of £375 per

Applicants should have had a good training in architecture.

ASSISTANT QUANTITY SURVEYORS (Grade VIII):

Commencing salary £625, rising by annual increments of £25 to a maximum of £700 per annum. ments of £25 to a maximum of £700 per annum. Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division). They should be capable of undertaking all stages of the work for the preparation of Bills of Quantities, including preliminary estimates; the preparation and settlement of final accounts; site measurements; and the preparation of interim certificates.

ASSISTANT QUANTITY SURVEYORS (Grade

Commencing salary £460, rising by annual increments of £15/£20 to a maximum of £510.

Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division). They should be experienced workers-up, capable of abstracting and billing in all trades, and drafting specifications from Bills of Quantities.

ASSISTANT QUANTITY SURVEYORS (Grade III): Commencing salary £390, rising by annual increments of £15 to a maximum of £435 per annum.

Applicants should have passed at least the Inter-mediate Examination of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and be capable of undertaking working-up, and the general technical duties of a Quantity Sur-veyor's Office.

ASSISTANT BUILDING SURVEYOR (Grade Commencing salary £450, rising by annual increments of £15/£20 to a maximum of £510.

ments of £15/£20 to a maximum of £510. Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Building Sub-Division). They should be capable of drafting specifications in all trades, preparing schedules of dilapidations, the preparation of detailed estimates for general maintenance works, and surveys of properties.

All the appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than the 15th Nevember, 1946.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

DUDLEY AUKLAND,

Clerk of the Council. County Hall, Kingston-on-Thames.

BOROUGH OF LUTON.

BOROUGH ENGINEER'S DEPARTMENT-TECHNICAL STAFF.

Applications are invited for the following

appointments:—
(a) ESTATES AND MAINTENANCE ASSISTANT. Salary £535—£20—£26—£26—£600.
(b) THREE SENIOR ARCHITECTURAL ASSISTANTS. Salary £535—£20—£20—£25—£600.
(c) ARCHITECTURAL ASSISTANT. Salary £540—£18—£465

(c) ARCHITECTURAL ASSISTANT. Salary £420-£15-£465. (d) TWO JUNIOR ARCHITECTURAL ASSISTANTS. Salary £330-£15-£375. (e) SENIOR QUANTITY SURVEYING ASSISTANT. Salary £350-£20-£20-£25-£500. (f) SENIOR ENGINEERING ASSISTANT. Salary £450-£15-£15-£20-£510. (g) TWO ENGINEERING ASSISTANTS. Salary £420-£15-£465. (h) ONE JUNIOR ENGINEERING ASSISTANT. Salary £360-£15-£405. (i) TWO JUNIOR ENGINEERING ASSISTANTS. Salary £360-£15-£405. (j) CHIEF PLANNING ASSISTANT. Salary £360-£15-£275, according to qualifications. (j) CHIEF PLANNING ASSISTANT. Salary £406. (k) PLANNING ASSISTANT. Salary £15-£460.

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(l) PLANNING ASSISTANT. Salary £360-£15-£405.

(l) ASSISTANT MAINTENANCE ENGINEER. Salary £360-£15-£405.

(m) TRACING ASSISTANT (Male or Female). Salary, General Division.

(n) ASSISTANT BUILDING MAINTENANCE SUPERINTENDENT. Salary £255-£300.

Applicants for appointment (a) must have had an extensive experience in the maintenance of buildings of all descriptions and in estate work, including valuations, and be £1.B.A. or P.A.S.I. The person appointed will be required to provide and maintain a car, for which an allowance will be paid at the rate of £60 per annum.

Applicants for appointments (b) and (c) must be A.R.I.B.A., and have had extensive experience in the design and construction of public buildings, schools and municipal houses and, in particular, have had recent experience in the design and development of housing schemes.

Applicants for appointment (l) should have had good general experience in the installation, repair, and maintenance of all types of lighting, heating and ventilating plant, etc., in public buildings and institutions. They should have made some progress in obtaining a qualification such as that of the Institute of Heating and Ventilating Engineers

Applicants for all other appointments must hold appropriate professional qualification or, in the case of junior appointments, have made progress in obtaining qualifications, and have had experience in municipal works appropriate to their profession.

profession.

The persons appointed to appointments (j) and (n) will be required to provide and maintain a car, for the use of which a maximum allowance of £75 and £60 per annum respectively will be

The appointments are all subject to the provisions of the Local Government Superannuation Act, 1937, and temporary cost-of-living bonus, at the rate of £59 l6s, per annum (for males), is payable in respect of each appointment. It may be possible to provide housing accommodation if it is required, within a reasonable time of the appointments, being taken up.

Applications, smitably endorsed, giving particulars of age, qualifications and experience, together with copies of not more than three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Luton, Beds., not later than first post on Thursday, the 28th November. Canvassing, directly or indirectly, will disqualify.

W. H. ROBINSON.

W. H. ROBINSON.

Town Clerk.

Town Hall, Luton. 22nd October, 1946.

CITY OF OXFORD EDUCATION COMMITTEE.

SCHOOLS OF TECHNOLOGY, ART AND COMMERCE: SCHOOL OF ARCHITECTURE AND BUILDING.

Applications are invited for the post of FULL-TIME INSTRUCTOR AND LECTURER IN BUILDING SCIENCE AND CONSTRUC-TION.

IN BUILDING SCIENCE AND CONSTRUCTION.

Applicants must be members of the R.I.B.A. and, preferably, should be holders of a degree or diploma of a recognized School of Architecture, or of an equivalent qualification in Building or Civil Engineering. Special experience and knowledge of Science applied to Building will be an additional qualification. The post is newly created to meet expansion and is permanent, dating from 1st January, 1947, or as early as possible. Salary will be paid in accordance with the Burnham (Technical) Report.

Forms of application and further particulars may be obtained on receipt of a stamped addressed envelope from the Chief Education Officer, 77, George Street, Oxford, to whom completed forms must be returned as soon as possible, and in any case not later than a fortnight from the date of the appearance of this advertisement.

BERKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments on the permanent staff:—

(a) ASSISTANT QUANTITY SURVEYOR, at a salary of £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus bonus.

(b) ENGINEERING ASSISTANT, at a salary of £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus bonus.

(c) ASSISTANT ARCHITECT, at a salary of £390 per annum, rising by three annual increments of £15 to a maximum of £435 per annum, plus bonus.

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(c) ASSISTANT ARCHITECT, at a salary of £390 per annum, rising by three annual increments of £15 to a maximum of £435 per annum, plus bonus.

The above grades are on the National Scale of Salaries, and the cost-of-living bonus is at present £59 lés, per annum.

Candidates for appointment (a) should be members of the Surveyors' Institution (Quantities Section), and should have had wide experience in preparing approximate estimates and bills of quantities, adjustment of accounts, etc.

Candidates for appointment (b) should be members of the Institution of Heating and Ventilating Engineers, and should have had wide experience in design and supervision of heating, hot water supply, electrical and general mechanical installations.

Candidates for appointment (c) should be Registered Architects, and should have had considerable experience of preparing working drawings and be able to take charge of contracts.

All the appointments will be subject to the Local Government Superannuation Act, to one month's notice on either side, to the successful candidates passing a medical examination, and to the Council's General Conditions of Service for Administrative, Professional, Technical and Clerical Staff for the time being in force.

Application forms can be obtained on receipt of a stamped addressed envelope from the County Architect. 10, Abbots Walk, Reading, to whom they should be returned completed, together with copies of three recent testimonials, on or before Monday, 18th November, 1946.

Canvassing, directly or indirectly, will be a disqualification.

H. J. C. NEOBARD,

H. J. C. NEOBARD, Clerk of the Council. Shire Hall, Reading.

BURNLEY EDUCATION COMMITTEE. MUNICIPAL SCHOOL OF ART.

Applications are invited for the position of INSTRUCTOR IN ARCHITECTURE. The classes are new, and include full-time students in Architecture, and Articled liuplis taking the B.I.B.A. Examination. There is an excellent opportunity for an enthusiastic man to develop a good School of Architecture. The Building Construction is taken in conjunction with the Burnley Municipal College.

Burnham Scale. For forms of application apply, enclosing stamped addressed foolscapenvelope, to the Director of Education, Education Offices, Burnley, by whom completed applications must be received not later than Saturday, 23rd November, 1946.

C. V. THORNLEY, Town Clerk.

October, 1946.

NOTTINGHAMSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the above Department, at salaries within the Administrative, Professional and Technical Division of the National Joint Council Scale, indicated namely:—

(a) QUANTITY SURVEYORS (2), at salaries within Grade VI, namely £535-£600 per annum; (b) QUANTITY SURVEYORS (2), at a salary within Grade IV, namely £420-£465 per annum; and

within Grade IV, namely £430.£465 per annum; and
(c) CLERK OF WORKS (1), at a salary within Grade II, namely £366.£405 per annum.
In addition to the salaries indicated above, there will be paid a cost-of-living bonus, at present £59 16s, per annum. Preference will be given to applicants who are Professional Associates of the R.I.C.S. in respect of (a) and Members of the R.I.C.S. in respect of (b) above. The above appointments will be subject to the Local Government Superannuation Acts, and the successful candidates will be required to pass a medical examination. Canvassing of Members of the County Council, either directly or indirectly, will be regarded as a disqualification.

Application forms and conditions of appointment may be obtained from the County Architect. Shire Hall, Nottingham, to whom completed applications should be returned not later than 30th November, 1946.

K. TWEEDALE MEABY, Clerk of the County Council. Shire Hall. Nottingham. 770

BOROUGH OF TAUNTON.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR (Grade V), commencing salary £460, rising by annual increments of £15/£20 to a maximum of £510.

annual increments of £15/£20 to a maximum of £510.

(b) ASSISTANT QUANTITY SURVEYOR (Grade I), commencing salary £330, rising by annual increments of £15 to a maximum of £375. Both appointments will carry a cost-of-living bonus, at present £59 19s. 3d, per annum. Applicants for (a) should possess approved qualifications and experience, capable of undertaking all stages of the work for the preparation of bills of quantities, the preparation of inlerim certificates.

Applicants for (b) should possess approved qualifications and experience, and be capable of undertaking working-up and general technical duties of a Quantity Surveyor's Office.

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

Applications, stating age, qualification and experience, stating the appointment applied for, and accompanied by copies of not more than three testimonials, should be sent to the Housing Architect, Architects' Department Baldwin Road, Taunton, by not later than the 23rd November, 1946.

MAJOR A, G. JURY, A.R.I.B.A.

MAJOR A. G. JURY, A.R.I.B.A.

Architect to the Council.

Architects' Department, Taunton. 743

CITY OF SALFORD.

Applications are invited for the appointment of a RE-DEVELOPMENT ASSISTANT, in the City Engineer's Department, at a salary of £535, rising, subject to satisfactory service, to a maximum of £600 per annum, plus cost-of-living bonus, at present payable of £59 16s. per annum. Candidates should be corporate members of the Institution of Civil Engineers, Royal Institute of British Architects, or Royal Institution of Chartered Surveyors, and have had experience in re-development under the Town Planning Acts. A special Town Planning qualification would be an advantage. advantage.

special Town Planning qualification would be an advantage.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate would be required to pass a medical examination. The Council has adopted the conditions of service of the National Joint Council.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be addressed to the City Engineer, Town Hall, Salford, 3, endorsof "Re-development Assistant," and forwarded so as to be received not later than 10 a.m. on Tuesday, 12th November, 1946.

H. H. TOMSON, Town Clerk.

PONTYPRIDD URBAN DISTRICT COUNCIL

Applications are invited for the following appointments, all of which are permanent, and subject to the provisions of the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one moth's notice on either side for termination.

The salary scales are those of the A.P. & T. Division of the National Scheme of Conditions of Service, and are exclusive of the cost-of-living bonus, at present £59 ids. per annum. (1) CHIEF ASSISTANT ARCHITECT (Grade VIII). £700 per annum, plus bonus.

(2) ARCHITECTURAL ASSISTANT (Grade II). £350-£275 per annum, plus bonus.

Candidates for appointment (1) must be Registered Architects and Associates of the Royal Institute of British Architects, with considerable experience of Housing and Municipal Architectural Work.

For appointments (2) and (3) preference will be given to candidates who have passed either the Intermediate or Final examination of the R.I.B.A. Applications, stating age, present and previous positions, technical training and qualifications (with dates), and concise particulars of experience, together with the names and addresses of two persons to whom reference may be made, must be delivered, appropriately endorsed, to the undersigned, to arrive not later than Thursday, the 14th of November, 1946. Canvassing will be a disqualification, and candidates must discose any relationship to Members of the Council.

H. LEONARD PORCHER,

Clerk of the Council.

Municipal Buildings, Pontypridd. 18th October, 1946.

MINISTRY OF WORKS.

Applications are invited to fill vacancies for ARUHITECTURAL ASSISTANTS, either male or female, in an unestablished capacity, for Drawing Office duties, in London and all main Provincial cities. Applicants should have had an approved period of recognized training. Experience with a practising Architect, Local Authority or Government Department would be regarded as a considerable advantage, but candidates without the latter qualifications would receive consideration. The salary will be up to £510 per annum inclusive, according to qualifications and experience.

ence.
An application from anyone who is at present employed by another Government Department cannot be considered unless his services have been declared redundant with his department.

Apply in writing, stating town district in which employment is desired, to:—Chief Architect, WGHO/JWG Roum 10, Ministry of Works, Abell House, John Islip Street, London, S.W.1. 725

COUNTY OF DENBIGH TOWN AND COUNTRY PLANNING JOINT COMMITTEE.

The above Joint Committee invite applications for the under-mentioned appointments, in accordance with the National Joint Council's Salary Scales, for A.P.T. and O. Services:—

(a) DEPUTY COUNTY PLANNING OFFICER (Grade VI), at a commencing salary of £535 per annum, rising to a maximum salary of £600 per annum.

annum.
(b) SENIOR COUNTY PLANNING ASSISTANT (Grade IV), at a commencing salary of £420 per annum, rising to a maximum salary of £465 per annum.
(c) COUNTY PLANNING ASSISTANT (Grade III), at a commencing salary of £390 per annum, rising to a maximum salary of £435 per annum.

annum.

(d) PLANNING ASSISTANT, ARCHITECTURAL (Grade II), at a commencing salary of \$250 per annum, rising to a maximum salary of \$465 per annum.

£360 per annum, rising to a maximum salary of £405 per annum.

(e) \$URVEYING ASSISTANT and DRAUGHTS-MAN (Grade II), at a commencing salary of £360 per annum. rising to a maximum salary of £405 per annum.

(f) DRAUGHTSMAN, General Division, at a commencing salary of £300 per annum. The commencing salary of £300 per annum. The commencing salary may be increased according to the successful applicant's age and experience. The above salaries are exclusive of cost-of-living bonus, which is at present £59 16s. per annum.

to the successful applicant's age and experience. The above salaries are exclusive of cost-of-living bonus, which is at present £59 16s. per annum.

The appointments will be subject to the terms and conditions of service, applying to the administrative, technical and clerical Officers of the County Council, and will be terminable by one month's notice in writing on either side.

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

Applicants for appointment (a) must be Corporate Members of the Town Planning Institute by examination, and other things being equal, preference will be given to applicants who hold an additional recognized qualification in either Architecture, Engineering or Surveying. Applicants must have had experience in the Plauning Department of a Local Authority or Joint Planning Committee, and be capable to undertake the preparation of regional and local planning schemes for extensive urban and rural areas, and have a sound knowledge of the administrative work of a Planning Department.

Applicants for appointments (b) and (c) must be Associate Members of the Town Planning Institute by examination, and should have had experience in the Planning Department of a Local Authority or Joint Planning Committee. For appointment (b) previous experience in the Planning Department of a Local Authority or Joint Planning Committee. For appointment (b) previous experience in the reparation of regional sirvey and planning schemes, housing lay-out and architectural work is essential.

Applicants for appointment (c) must be competent surveyors and levellers, and be expert ranghtsmen and capable to undertake the preparation of regional survey and planning schemes.

Applicants for appointment (f) must be expert ranghtsmen and colourists. Experience in the preparation of regional survey and planning schemes.

Applicants for appointment (f) must be expert draughtsmen and colourists. Experience in the preparation of perspective drawings will be an advantage.

Applicants should indicate the appointment applied for, and should state whether they wish to be considered for more than one appointment. Applications, stating age, whether married or single, qualifications, present position and salary, previous positions, and full details of experience obtained, accompanied by copies of three recent testimonials, must be sent to me, the undersigned, suitably endorsed, by not later than 25th November, 1946.

WILLIAM JONES, Clerk to the Joint Committee. County Offices, Ruthin, Denbighshire. 28th October, 1946. 767

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Ferndale Road, S.W.4, as soon as possible:—

(1) Full-time TEACHER OF BUILDING DRAWING AND BUILDING-CONSTRUCTION, for work in the Secondary (Technical) School. Applicants should have good professional or industrial experience, and possess one of the following qualifications: A.R.I.B.A., A.M.I.Struct.E., Higher National Certificate or Diploma, City and Guilds Full Technological Certificate. Some teaching experience desirable.

(2) Full-time Temporary TEACHER AND STUDIO MASTER IN ARCHITECTURAL DESIGN, in the Architecture department. Applicants must be members of the Royal Institute of British Architects, and should possess the Degree or Diploma of a recognized School of Architecture, and have interest and ability in Architectural Deeign and Draughtsmanship. Members of the staff are normally afforded reasonable opportunities for practice and research. Burnham Scale salary, £200×£15 to £923 (men), plus London allowance (minimum £36) a year, and additions for training and qualifications as applicable. Commencing salary according to teaching and industrial experience. Other things being equal, preference will be given to registered disabled persons. Application forms from the Education Officer (T.I.). County Hall. S.E.1 (stamped addressed foolscap envelope necessary), returnable by 9th Deember, 1946. H.M. Forces personnel abroad should apply by letter. 790

METROPOLITAN BOROUGH OF HAMPSTEAD. APPOINTMENT OF HOUSING ARCHITECT. BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF HOUSING ARCHITECT.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of Housing Architect, in the Borough Engineer's Department, at a salary of £575 per annum, rising by annual increments of £50 to a maximum of £925 per annum, plus cost-of-living bonus, at present £93 l6s, per annum, the commencing salary of the officer appointed may, according to his experience and ability, be fixed by the Council at a figure in excess of the minimum stated above, but not exceeding £925.

Applicants must be Registered Architects qualified by examination, and the officer appointed will be required to advise on housing sites and supervise the work of Architects employed on housing by the Council; to inspect and report on properties for requisition, and supervise adaptation work thereon; to supervise war damage repairs work, Clivil building licensing, and malor housing repairs. He will be technically responsible direct to the Housing Committee. Knowledge and experience of the Housing Acts and of municipal architectural work will be an advantage.

Application, on the form which may be obtained from me, giving full particulars and accompanied by copies of three recent testimosials, must be delivered to me in a sealed envelope endorsed "Housing Architect," not later than 22nd November, 1946.

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

Canvassing will disqualify.

P. H. HARROLD,

Town Hall, Haverstock Hill, N.W.S.

1st November, 1946.

Town Hall, Haverstock Hill, N.W.3. 1st November, 1946.

BOROUGH OF STOCKTON-ON-TEES. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, on the permanent staff:—

(a) DEPUTY BOROUGH ARCHITECT. Grade V. 2460-2510 p.s.
(b) SENIOR QUANTITY SURVEYOR or ASSISTANT ARCHITECT, with quantity surveying experience. Grade IV. 2420-2465 p.s.
(c) ASSISTANT QUANTITY SURVEYOR or ARCHITECTURAL ASSISTANT, with quantity surveying experience. Grade II, 2360-2405 p.s.
(d) CLERICAL ASSISTANT (General Division). Male £160-£300, female £128-£240, according to age.

(d) CLERIUAL ASSISTANT USES (Continued to Male £160-£300, female £128-£240, according to age.

And the following appointment on the temporary staff:

(e) CLERK OF WORKS. £315-£350 p.a.

Candidates for appointment (a) must be Associate Members K.I.B.A., and have had experience with a Local Authority; (b) should be members of the Surveyors' Institute or otherwise qualified, and must have had experience in quantity surveying; (c) should be of intermediate examination standard, and have quantity surveying experience; (d) must be a capable typist, and preference will be given to candidates with experience in an Architect or Builder's office; (e) should have had previous experience as a Clerk of Works on buildings.

The current cost-of-living bonus (at present £59 16s. p.a. for males, and £48 2s. for females) will be paid in addition to the foregoing salaries. Applications, on foolscap sheets, stating full particulars of age, qualifications, experience, and accompanied by three recent testimonials, must reach the undersigned not later than Tuesday, the 26th November, 1946.

BRIC BELLINGHAM,

Barclay's Bank Chambers, 49 High

Street. Stockton-on-Tees.

Barclay's Bank Chambers, 49 High Street, Stockton-on-Tees.

BATTERSEA BOROUGH COUNCIL. APPOINTMENT OF DRAUGHTSMEN.

APPOINTMENT OF DRAUGHTSMEN.

Applications are invited for the permanent appointment of two Draughtsmen, in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T. (Grade I) of the National Scale, viz., £330-£375, plus £20 London weighting, and cost-of-living bonus (at present £59 16s. per annum). Candidates must be fully competent and expeditious draughtsmen, with knowledge of building construction.

The appointment is subject to the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side. The successful candidates will be required to pass a medical examination. Applications, on forms which may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.I., and accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than noon on Monday, the 25th November, 1946.

R. G. BERRY,

R. G. BERRY, Town Clerk. Town Hall, Lavender Hill, S.W.11. October, 1946.

BATTERSEA BOROUGH COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

ASSISTANTS.

Applications are invited for the permanent appointment of four Architectural Assistants, in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T. (Grades III to IV) of the National Scale, viz., 2390-2465, plus £20 London weighting, and cost-of-living bonus (at present £59 16e, per annum). Candidates must have passed the Intermediate examination of the Royal Institute of British Architects, and have good architectural experience, including housing.

The appointment is subject to the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side. The successful candidates will be required to pass a medical examination. Applications, on forms which may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.II, and accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than noon on Monday, the 25th November, 1946.

R. G. BERRY,

R. G. BERRY, Town Clerk. Town Hall, Lavender Hill, S.W.11. October, 1946.

FRIERN BARNET URBAN DISTRICT

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in connection with the Council's housing schemes, at a salary of £450 per annum, plus cost-of-living bonus, at present \$50.16a.

Sy 16s.

Preference will be given to applicants who possess the A.R.I.B.A. or equivalent qualifications, and experience in housing work will be an advantage.

The appointment is temporary, and terminable by one month's notice on either side.

Applications, stating age, experience, qualifications and past appointments, accompanied by copies of two recent testimonials, should be delivered to J. Marshall, Esq., M.Inst.M. & Cy.E., P.A.S.I., Engineer and Surveyor, Friern Barnet Urban District Council, Town Hall, N.11, not later than 13th November, 1946.

G. T. FLETCHER, Clerk of the Council. Town Hall, Friern Barnet, N.11. 774

CENTRAL BUCKS JOINT PLANNING COMMITTEE.

APPOINTMENT OF PLANNING ASSISTANT.

APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the post of Planning Assistant, on the Committee's Staff. under Grade A.P. & T. (III) of the National Scales, £390-£455, plus cost-of-living bonus. The post will be superannuated and subject to a satisfactory medical examination Applicants should have had good experience in the preparation of planning schemes, and possess an appropriate technical qualification.

Applications, duly endorsed "Planning Assistant. Central Bucks Joint Planning Committee," stating in the following order (a) name, (b) address, (c) age. (d) qualification, (e) present appointment and salary, (f) previous positions. (g) particulars of experience, and accompanied by copies of two recent testimonials, to be delivered to the undersigned not later than the

H. CROOKES.

Clerk to the Joint Committee. 763 Town Hall, Aylesbury.

Amended Advertisement.
COUNTY BOROUGH OF TYNEMOUTH. BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF TECHNICAL ASSISTANTS.

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Applications are invited for the following appointments (A.P.T. Division of the National Scales). All salaries are exclusive of war bonus, at present £59 16s.

(a) CHIEF ARCHITECTURAL ASSISTANT. Grade VI, £575-£550 (commencing salary £600).

(b) SENIOR ARCHITECTURAL ASSISTANT. Grade VI, £535-£600.

(c) SENIOR ARCHITECTURAL ASSISTANT. Grade V, £460-£510.

(c) SENIOR ARCHITECTURAL ASSISTANT.
Grade V. 2460-2510.
(d) ARCHITECTURAL ASSISTANT. Grade IV. 2420-2456.
(e) ARCHITECTURAL ASSISTANT. Grade III. 2390-2455.
(f) JUNIOR ARCHITECTURAL ASSISTANT. Grade II. 2500-2405.
(g) SENIOR ENGINEERING ASSISTANT. Grade V. 2460-2510.
(h) SENIOR PLANNING ASSISTANT. Grade V. 2460-2510.

Grade V. 2460-2510.

(g) SENIOR ENGINEERING ASSISTANT. Grade V. 2460-2510.

(h) SENIOR PLANNING ASSISTANT. Grade V. 2460-2510.

Applicants for appointment (a) must be Associates of the Royal Institute of British Architects, and have had good general architectural experience, particularly Housing. Experience in the design of hospital and school buildings will be an advantage, and some administrative experience is desirable.

Applicants for appointments (b), (c) and (d) should be similarly qualified, but administrative experience is not essential.

Applicants for appointments (e) and (f) should have passed the Intermediate Examination of the R.I.B.A., and should have had some experience with a Local Authority.

Applicants for appointment (g) must be appointed to the state of the R.I.B.A., and should have had some experience with a Local Authority.

Applicants for appointment (g) must be appointed to the state of the R.I.B.A., and should have had good general Municipal engineering experience, including constructional work. Experience in reinforced concrete design, main drainage and coast defence work will be an advantage.

Applicants for appointment (h) must be Associate Members of the Town Planning Institute, and should have experience in the carrying out of basic surveys and the re-planning of built-up areas. A recognized Engineering or Architectural qualification will be an advantage.

Applications, on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Herlity, B.Sc., M.Inst.C.E., Howard Street, North Shields, together with copies of not more than three recent testimonials, should be addressed to the Borough Surveyor, to arrive not later than Saturday, 23rd November, 1946.

All appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, a medical examination, and one month's notice on either side.

side.
Dated this 29th day of October, 1946.

FRED. G. EGNER, Town Clerk.

Northumberland Square, North Shields.

BOROUGH OF WREXHAM.

HOUSING ARCHITECTURAL DEPARTMENT

Applications are invited for the following tem-orary appointments, in connection with a large lousing Scheme:— Housing Scheme:—
(a) QUALIFIED QUANTITY SURVEYOR.
£600 per annum.
(b) SENIOR ARCHITECTURAL ASSISTANT.

575 per annum. (c) ARCHITECTURAL ASSISTANT. £510 per (d) ARCHITECTURAL DRAUGHTSMAN.

2300 per annum.

The above salaries are inclusive of cost-of-living bonus, at present amounting to £59 19s. 3d. per

Further particulars and conditions of appointment and forms of application may be obtained from the undersigned, to whom applications are to be delivered by not later than 22nd November,

PHILIP J. WALTERS, Town Clerk. Guildhall, Wrexham. 24th October, 1946.

KENT EDUCATION COMMITTEE.

BECKENHAM COUNTY TECHNICAL SCHOOL.

Wanted, immediately, Master, with Graduate or equivalent qualifications, and practical experience to teach Building Construction, Science and Mathematics in the County Technical School. The person appointed may also be required to advise on Building Subjects and undertake some evening teaching in the Technical Institute. Post is full-time and permanent, salary on Burnham London Scale.

Forms of application (which should be returned immediately) from the Head Master, County Technical School, Beckenham, Kent.

BOROUGH OF SWINDON.

BOROUGH ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments on the staff of the Borough Architect (Mr. G. Kenyon, Dip.Arch., A.R.I.B.A., Dip.T.P., A.M.T.P.I.):—

(1) One Architectural Assistant, at a salary in accordance with Grade V of the National Scales (2460-2510).

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(2460-2510).
(2) One Architectural Assistant, at a salary in accordance with Grade IV of the National Scales (2420-2465).

accordance with Grade IV of the National Scales (£480-£465).
Plus, in each case, such cost-of-living bonus as may from time to time be paid by the Corporation (at present £59 16s.).
Applicants must have had experience in housing and the general architectural work of a local authority, and in the case of (1) above extensive experience in the preparation of bills of quantities, specifications, and estimates for all classes of public buildings.
Preference will be given to candidates who are Associates of the Royal Institute of British Architects.
The appointments, terminable by one month's notice on either side, are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.
The Council will assist the successful candidates to secure housing accommodation if required.

Errms of application may be obtained from the

dates to secure housing accommodation in required.

Forms of application may be obtained from the undersigned, and applications appropriately endorsed must be delivered to me not later than Saturday, 30th November, 1946.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN,

D. MURRAY JOHN,

Civic Offices, Swindon. 23rd October, 1946.

Town Clerk.

COUNTY BOROUGH OF NEWPORT, MON. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—
(a) FOUR SENIOR ASSISTANT ARCHITECTS, mainly for Housing and Education
Work.

THEOTE, mainly for Housing and Education (b) ONE ARCHITECTURAL ASSISTANT. Candidates for the former appointments must be members of the R.I.B.A. by examination. Salaries for these four positions will be in accordance with Grade VI, A.P. & T. Division, of the National Scheme for Local Government Officers, £535 per annum to £560 per annum, plus the current cost-of-living bonus. The salary for the latter position will be in accordance with Grade V, A.P. & T. Division, £460 per annum to £510 per annum, plus the current cost-of-living bonus. All appointments will be subject to the Corporation's Conditions of Service and Superannution Scheme, and the successful candidates will be required to pass a medical examination. The appointments are temporary, but it is possible that permanent positions may develop. Applications, accompanied by three recent testimonials, must reach me not later than Tuesday, the 19th November, 1946.

In accordance with the Town Council's resclution, the successful candidates will be entitled to the tenancy of a temporary bungalow in the Borough for the duration of service with the Newport Corporation.

JOHNSON BLACKETT, F.B.I.B.A.,

Borough Architect.

Town Hall, Newport, Mon. 28th October, 1946. 761

CITY OF LEICESTER EDUCATION COMMITTEE.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the appointment of Two Assistant Architects, on the staff of the Education Committee's Architect (Mr. J. C. Thompson, F.R.I.B.A.), at a salary of 2460 per annum, rising by annual increments of £15 to a maximum of £510, plus cost-of-living bonus, at present £60 (men) and £48 (women). The appointments will be subject to the provisions of the Local Government Superannuation Act, and to passing the required medical examination.

Forms of application may be obtained from the undersigned, to whom they should be returned when completed, accompanied by copies of not more than three recent testimonials, not later than Thursday, 21st November, 1946.

Education Offices, Newarke Street,
Leicester.
25th October, 1946.
759

CITY OF STOKE-ON-TRENT.

CITY ARCHITECTURAL DEPARTMENT.

Applications are invited for the following appointments, on the Establishment staff of the City Architectural Department:—

(a) ONE ASSISTANT ARCHITECT (EDUCATION). Salary A.P.T. Division (Grade VI), £535.£600. (The salary will commence within the above grade, according to qualifications and

cxperience.)
(b) THREE ASSISTANT ARCHITECTS. Salary A.P.T. Division (Grade V), £460-£510.
(c) TWO ARCHITECTURAL ASSISTANTS. Salary A.P.T. Division (Grade I), £330-£375.
(d) ONE STRUCTURAL ENGINEER. Salary A.P.T. Division V, £460-£510.
(e) ONE HEATING AND VENTILATING ENGINEER. Salary A.P.T. Division V, £460-£510.

ENGINEER. Salary A.P.T. Division V, 2460-£510.
(f) TWO ASSISTANT QUANTITY SUR-VEYORS. Salary A.P.T. Division V, £460-51C. Note.—The salaries for (d), (e) and (f) will commence within the above grade, according to qualifications and experience.
(g) ONE CLERK OF WORKS. Salary A.P.T. Division III, £330-£375.
(h) TWO CLERKS OF WORKS. Salary A.P.T. Division I, £330-£375.
All the above appointments carry in addition a cost-of-living bonus, at present £59 168. per annum.

Applicants for (a) must be Associates of the Royal Institute of British Architects, and must have had experience in the planning, design and construction of buildings for Education ourposes, and possess a full knowledge of the requirements of a Local Education Authority and of the Building Regulations and Standards for School Premises of the Education Act, 1944. Applicants for (b) should possess experience of carrying out large projects, and preference will be given to members of the Royal Institute of British Architects.

Applicants for (c) should have had experience of housing work under a local Government department, and preference will be given to applicants who have reached Intermediate Standard of the R.I.B.A.

of the R.I.B.A.

Applicants for (d) should possess a Degree in Engineering or other appropriate professional qualifications, and experience in Structural Engineering.

Applicants for (e) should be Associate Members of the Institute of Heating and Ventilating Engineers, and must have had experience in the design and maintenance of large heating, hot water, and ventilation installations.

Applicants for (f) Preference will be given to members of the Royal Chartered Surveyors' Institution. Applicants should be competent to take off, abstract and bill quantities, prepare estimates, interim certificates and final accounts, and have had experience in Education and Housing work. and have had Housing work.

and have had experience in Education and Housing work.

Applicants for (g) should have had full experience of the Building Trade and previous experience as Clerk of Works on large projects.

Applicants for (h) should have had full experience of the Building Trade, and previous experience of the Building Trade, and previous experience of house building contracts.

The selected applicants will be required to pass a medical examination, and the appointment will be subject to the following:

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

Applications, giving date of birth, particulars of appropriate training, qualifications, experience, previous and present appointments and salary, with copies of two recent testimonials, and the names and addresses of two persons to whom reference may be made, should be received by me endorsed "Assistant Architect," etc., as the case may be not later than 10 a.m. on Monday, 18th November, 1946.

HARRY TAYLOR.

HARRY TAYLOR. Town Clerk.

Town Hall, Stoke-on-Trent. 30th October, 1946.

COUNTY BOROUGH OF DUDLEY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, on the staff of the Borough Architect. Salary £330.£375 (Grade I) of A.P.T. Division of National Joint Council plus cost-of-living bonus, at present £59 16s. per annum. Applicants should have passed the intermediate examination of the R.I.B.A. and possess a sound architectural training.

K.I.B.A. and possess a sound architectural training.

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

Applications, stating age, qualifications, past experience and present appointment, together with the names of two persons to whom reference may be made, should be sent to the undermentioned not later than Saturday, the 16th November, 1946.

A. V. WILLIAMS.

782

Town Clerk. Council House, Dudley. 30th October, 1946.

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for the following appointments:—
(1) FULL-TIME LECTURER on Building Construction, Working Drawings and Materials. Applicants should be members by examination of one of the recognized Institutions associated with Architecture, Surveying or Building. Some teaching experience will be an advantage, but is not essential.

(2) PART-TIME STUDIO INSTRUCTORS in Architectural Design and Working Drawings in the Day School of Architecture.

Applications should be made in writing to the Clerk to the Governors, giving particulars of training and experience.

R, H. CURRELL,

Clerk.

789

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff, which are subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termina-

and one month's notice on either side for termination.

The salary scales are those of the A.P. & T.
Division of the National Scheme of Conditions of
Service, and are subject to the addition of cost-ofliving bonus, at present £59 16s. per annum.
(a) PRINCIPAL ASSISTANT ARCHITECT
(HOUSING). Grade VII £575-£650.
(b) PRINCIPAL ASSISTANT ARCHITECT
(EDUCATION). Grade VII, £575-£650.
(c) PRINCIPAL ASSISTANT ARCHITECT
(GENERAL). Grade VII, £575-£650.
(d) SENIOR ASSISTANT ARCHITECTS.
Grade VI, £555-£600.
(e) ASSISTANT ARCHITECTS. Grade IV,
£460-£510.
(f) ASSISTANT ARCHITECTS. Grade IV,
£420-£465.
(g) ASSISTANT ARCHITECTS. Grade III,
£390-£435.
(h) ASSISTANT ARCHITECTS. Grade III,
£360-£405.

(h) ASSISTANT ARCHITECTS. Grade 11, 250-2405.
(i) CHIEF QUANTITY SURVEYOR. Grade VIII. £625-£700.
(j) SENIOR ASSISTANT QUANTITY SURVEYORS. Grade VI, £535-£500.
Applicants for Architectural Appointments should preferably be Associates of the R.I.B.A. Applicants for Quantity Surveying Appointments should preferably be Members of the Royal Institution of Charleted Surveyors Quantities Section).
Candidates must not be over 40 years of age,

Section). Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials, must be returned to me not later than 30th November, 1946.

E. G. CATCHPOLE, A.R.I.B.A.

City Architect.

Weston Lodge, Seymour Road, Mannamead, Plymouth.

UNIVERSITY OF DURHAM.

KING'S COLLEGE, NEWCASTLE-UPON-TYNE.

DEPARTMENT OF ARCHITECTURE.

The Council of King's College invite applica-tions for the post of LECTURER IN ARCHI-TECTURE, at a commencing salary of not less than £500 per annum. The salary scale rises by annual increments of £25 to a maximum of £800, and the salary of the successful applicant will be fixed at a point on that scale in accordance with his qualifications and experience. Buties to commence on 1st January, 1947, or earlier if nossible.

possible.

Ten copies of application, together with the names of three persons to whom reference may be made, should be submitted not later than Saturday, 30th November, 1946, to the undersigned, from whom further particulars may be obtained.

G. R. HANSON.

Registrar of King's College.

HASTINGS SCHOOL OF ART. Principal: VINCENT LINES, R.W.S., A.R.C.A.(Lond.)

DEPARTMENT OF ARCHITECTURE.

Applications are invited for the appointment of a full-time LECTURER and STUDIO IN-STRUCTOR in Architectural Design and Con-

STRUCTOR in Architectural Design and Construction.
Candidates should hold the A.R.I.B.A. or equivalent qualification. Salary in accordance with the Burnham Scale.
Application forms may be obtained from the Chief Education Officer, 18, Wellington Square, Hastings, and should be returned, with copies of two recent testimonials, by 30th November. 796

MATLOCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPART-

APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE II).

Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with Grade II of the Administrative, Professional and Technical Division of the National Scheme of Conditions of Service, namely £360, rising by annual increments of £15 to £405 per annum, plus cost-of-living bonus (at present £59 16s, per annum). Applicants should be experienced in land surveying, levelling, preparation of plans, working drawings and specifications for housing schemes, and preference will be given to candidates having suitable qualifications.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, to be forwarded to N. Chamberlain, F.S.I., M.Inst.M. & Cy.E., Engineer and Surveyor, Town Hall, Matlock, not later than the 2nd December, 1946.

December, 1946.

The appointment will be subject to one month's notice on either side, and also to the provisions of the Local Government Superannuation Act,

N. S. BROOK,
Clerk of the Council.
31st October, 1946.

Tenders

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

TARVIN RURAL DISTRICT COUNCIL.

"AIREY" HOUSES.

The above Council invite applications from Builders and Contractors who desire to tender for the erection and completion of 40 "Airey" prefabricated Houses on various sites in the district. The Council will consider tenders for the whole or in part. Only such firms who have labour available, and as are in a position to commence work immediately on acceptance of Tender, should apply. Applications must reach me not later than the 11th November, 1946.

J. H. MOORE-DUTTON,

Clerk to the Council.

Westminster Buildings, Newgate Street, Chester.

Architectural Appointments Vacant

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

Wherever possible prospective employers are urged to give in their advertisements full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

BUILDERS' SURVEYOR and ESTIMATOR required for priced Schedules of Dilapidations; experienced man over 35, able to work without supervision; London area. Salary desired and particulars to BOX 681.

SENIOR AFSISTANT DRAUGHTSMAN required; London district; experienced in industrial design an advantage; salary £350-£400.

JUNIOR DRAUGHTSMAN required in Maidenhead Architect's Office. Send par-ticulars of experience and salary required to

A RCHITECTURAL DRAUGHTSMAN required, Maidenhead; capable of working up from aketches, preparing details, surveys, etc. Send details of experience and salary required to Box 673.

QUANTITY SURVEYOR required in East Anglian Architect's office; salary in accord-ance with experience and capability. Full details to Box 721.

A RCHITECTURAL ASSISTANT required in busy Architect's office; intermediate or higher standard. Full details to Box 722.

A RCHITECT'S SENIOR ASSISTANT wanted in established private practice, West Country county town; Associate, school trained, with practical experience, good designer, capable administrator, quick worker; five assistants employed; salary £415; permanency for the right mun. Box 720.

ESTIMATOR required for Builder's Office in S.E. Kent; state age and salary required, and give references. Box 724.

EXPERIENCED DRAUGHTSMAN required for Precast Concrete Products Factory, specialising in reinforced concrete floors and masonry; applicants must be thoroughly experienced in detailing and taking off quantities, and preference given to one with experience of reinforced concrete design and calculations. Apply by letter only, stating experience and salary required, to Girlings Ferro-Concrete Co., Ltd., Rothwell, near Leeds.

A BCHITECT'S JUNIOR ASSISTANT (B.I.B.A. Intermediate standard) required for work on large housing schemes and industrial buildings; good opening for young ex-Service man with the right qualifications. Apply in writing, stating age, experience, and salary required, to Stewart & Hendry, F.R.I.B.A., 90, Fenchurch Street, London, E.C.3.

BUILDING SURVEYOR wanted by large London commercial company; capable of preparing war damage dilapidations, specifications and drawings for conversions, in London and Provinces; salary £400-£500, according to experience. Please reply to Box 733.

A RCHITECTURAL ASSISTANT wanted, in London office of Staff Architect to large industrial company; well trained, good draughtsman, able to handle large and small jobs from sketch plans to finish; salary £400-£500, according to qualifications. Please reply to Box 734.

GRAYSON & GOLDSMITH, F./A.R.I.B.A., A.A.Dipl., 7, Bridge Street, Bath, require first-class Assistant; would welcome ex-Service man, with pre-war experience; interesting work; salary by arrangement. 769

ARCHITECTURAL DRAUGHTSMAN for industrial work with large firm in Manchester district; state age and experience; good salary, according to ability. Box 768.

SENIOR ARCHITECTURAL ASSISTANT required; preferably qualified with experience in Schools and Housing. Apply, stating age and salary required, to E. P. Tew, Dip. Arch. (Glas.), A.R.I.B.A., 7, Northumberland Buildings, Bath.

Ings, Bath. 766
SENIOR ASSISTANT wanted, for rapidly expanding London Architects' office; salary £500 per annum upwards, according to ability; there are prospects of the successful applicant taking charge of a sub-office in the future. Box

ARGE Manufacturing Company offers a post to an Architect's Draughtsman in Hull, who should have experience of estimating and preparing quantities; age about 25. Reply to Box 747, stating qualifications, experience, age, salary, and when available.

and when available.

A RCHITECT'S and SURVEYOR'S ASSISTANTS required by Important Institution in London; applicants should be Associates of R.I.B.A.; age 30 to 35; with good general experience and capable of making building curveys; salary up to £550, according to age and experience. Write only to Box B.455, c/o Streets, 110, Old Broad Street, E.C.2.

A SSISTANT required in Architect's Office Gray's Inn; 4-5 years' experience; housing and commercial work. Write, giving full particulars and salary required, to Box 751.

A RCHITECT (London) requires part-time or home services of capable Assistant; experienced in hospital planning. Write, giving particulars, to Box 752.

QUALIFIED QUANTITY SURVEYOR co-quired for permanent position in London Office; pre-war experience in taking-off essential. State experience and salary required to Box 757. JUNIOR required in Architect and Industrial

Designer's Office; good draughtsmanship essential. Write, with full particulars, to Misha Black, Design Research Unit, 37, Park Street,

W.I.

VANTED. — ARCHITECTURAL ASSISTANT. experienced, immediately. Apply, with full particulars, to J. M. Porter & Co., The Estate Office, Colwyn Bay, North Wales. 776

ARCHITECTURAL ASSISTANTS required immediately. Apply, giving full particulars, salary required. W. H. Ansell & Arthur Bailey, 5, Verulam Buildings, Gray's Inn, London, W.C.1.

A RCHITECTURAL or CONSTRUCTIONAL ASSISTANT required by professional Firm, Westminster area; duties to assist Senior Architect in preparation of working drawings and contract negotiations. Please state experience and qualifications to Box 779.

WANTED, in Architects' office, SENIOR and JUNIOR ASSISTANTS; knowledge of Housing an asset, but not essential; branches in Wimbledon and Nunhead; salaries up to 29 10s. per week, inclusive. Box 780.

EXPERIENCED DRAUGHTSMAN wanted, with good knowledge of building construction and able to make surveys; salary £425 per annum; country practice. Write Box 783.

RCHITECTURAL ASSISTANT required immediately; applicants must be capable of preparing working drawings from sketch designs, for commercial and industrial buildings; salary according to qualifications and experience. Apply, giving full particulars, to Quiggin & Gee, FF.R.I.B.A., '11, Oldhall Street, Liverpool, 3. 784

SUPERVISOR of Maintenance Staff required for large City Office building; applicants (not over 45 years) must have had sound experience in the control of building work in all trades and ordering of materials; preference given to apprenticed carpenter and joiner conversant with high grade work. Write, stating age, salary, training and qualifications, to Box 788.

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HENRY C. SMART & PARTNERS, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required. 791

stating age, experience, and salary required. 791

A RCHITECTURAL ASSISTANTS required immediately for vacancies at London, Bristol and Swansea; must be prepared to travel extensively; salary £300-£350 p.a.; overtime paid at basic rates. Apply Mackintosh & Partners, 35. Tavistock Square. Tel.: Euston 2084. 793

EELY & PAGET, F./L.R.I.B.A., require fully qualified Assistant; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.1. 795

Architectural Appointments Wanted

Advertisements from Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

PRAUGHTSMAN desires full or part-time employment in or near Bedford. Box 152.

Senior Architectural Draughts—man would assist Architects and Contractors in the London area; spare-time work required; fast and expert draughtsman from rough sketches or notes; housing, flats, shops, factories, etc.; very moderate fees. Write Box 156.

ASISTANT (aged 30), could help busy Architect or Surveyor; own office; 7 years with London Architect pre-war; plans from roughs, tracings, etc.; really expert shorthand-typist, experienced schedules, specifications, bills, etc.; would consider full-time post. Box 158.

Box 158.

A. B.I.B.A. (Lady) seeks position in proegressive London office engaged on housing, etc.; school trained, and several years' general experience; five-day week essential. Box 155.

DRAUGHTSMAN, aged 26, with 3 years' experience in Municipal engineer's office, requires post in Architect's office. Box 159.

DRAUGHTSWOMAN and Tracer, recently demobilized W.R.N.S. (Officer) with considerable drawing office and administrative experience. requires position in London; no Saturdays. Box 160.

Other Appointments Wanted

Four lines or under, 2s, 6d.; each additional line, 1s.

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A RCHITECT'S ASSISTANT undertakes the preparation of sketches, working drawings, tracings, etc., from home address. Box 765.

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Miscellaneous

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THE ALLEN - LYMAN SECRETARIAL BUREAU, Bank Chambers, St. Giles' Square, Northampton (Tel. No. 4697), 7, Rose Crescent, Cambridge (Tel. No. 3606), Specialists in Specifications and Bills of Quantities, and we navite you to send yours to either of the above Branches; prompt attention, accuracy, and deficiency cargaranteed, 658 Branches; prompt

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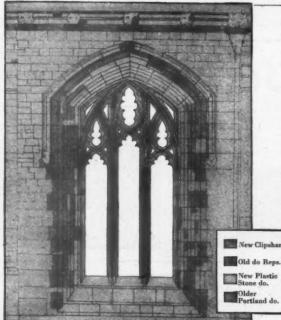


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* Restoration Work at Winchester *



How painstaking and eminently successful this company's work can be is clearly illustrated by the accompanying diagram and untouched photographs of recently restored stonework at Winchester Cathedral. These and other original diagrams and photographs are open to the inspection of all who are interested. Please write.



Before
and after
Restoration
of
Decayed



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