

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

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

IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.	Victoria 0146/7
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1.	Museum 1264
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2.	Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh 20396	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1.	Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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[Vol. 107

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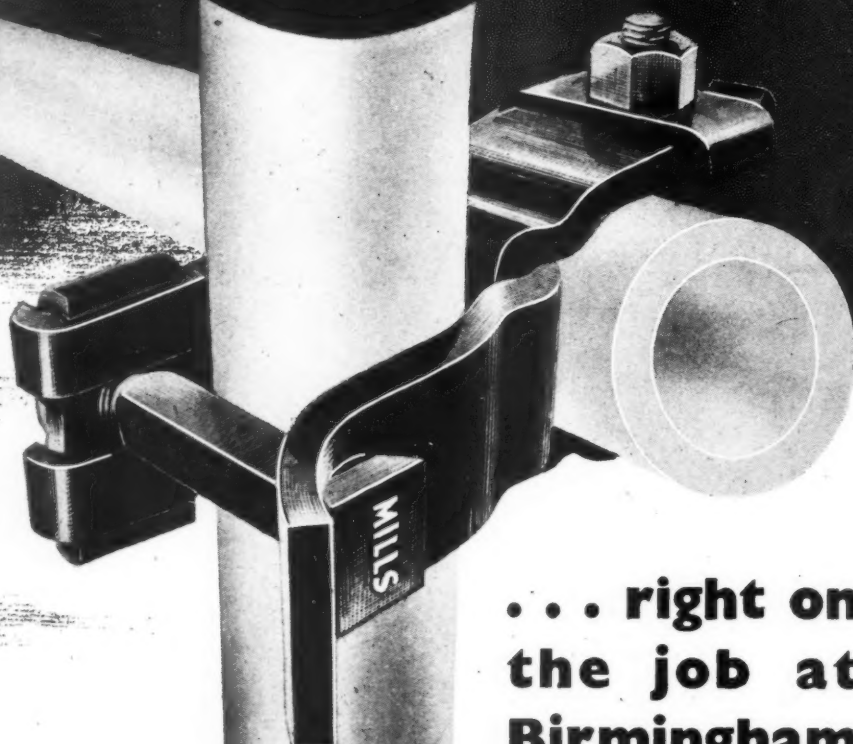
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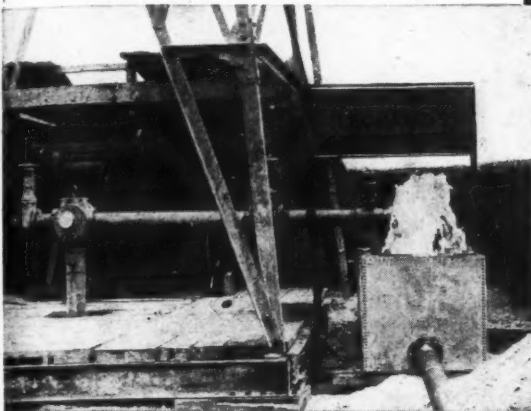
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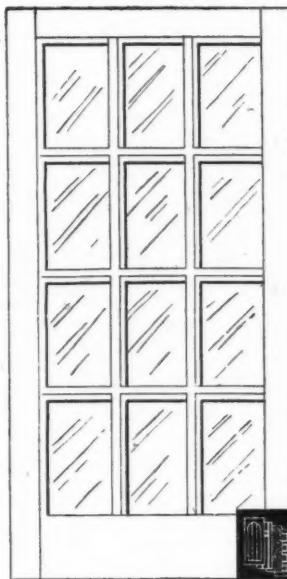
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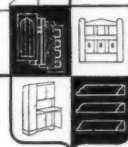
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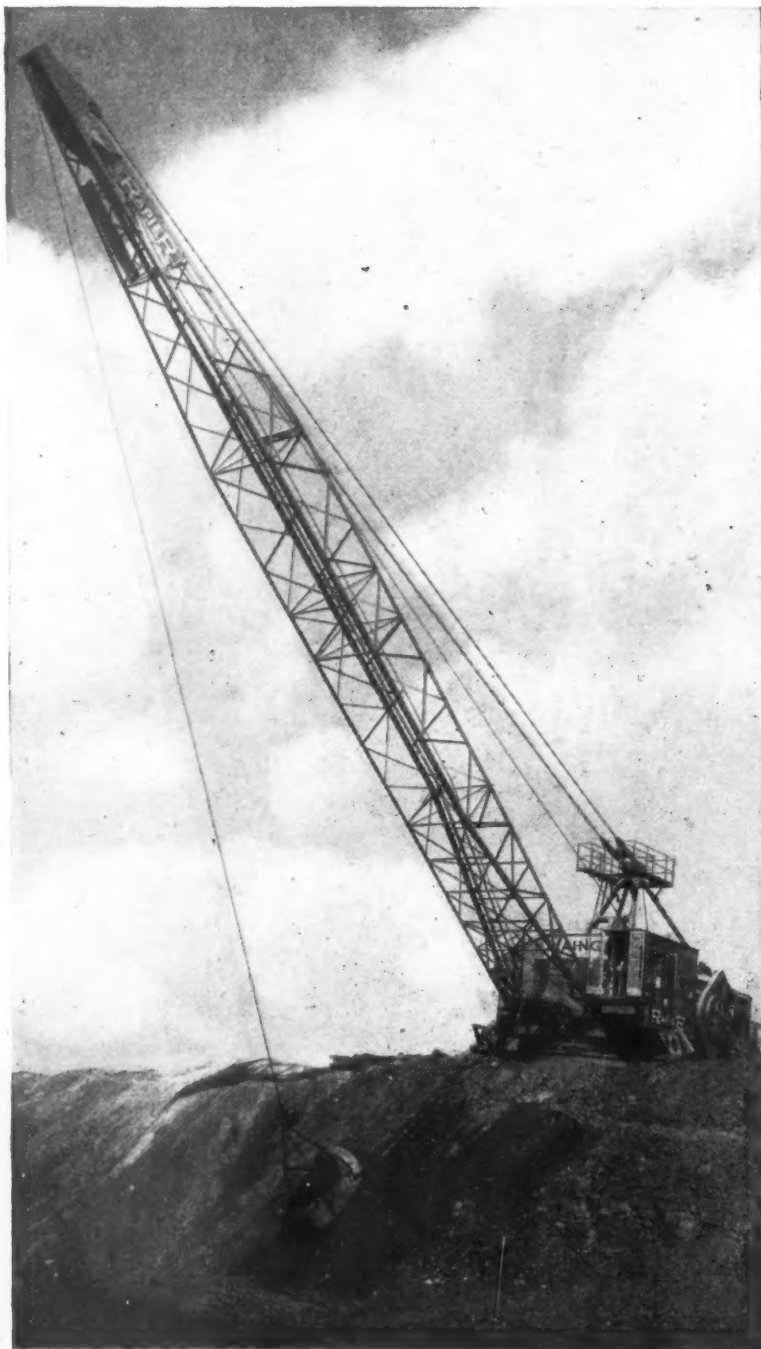
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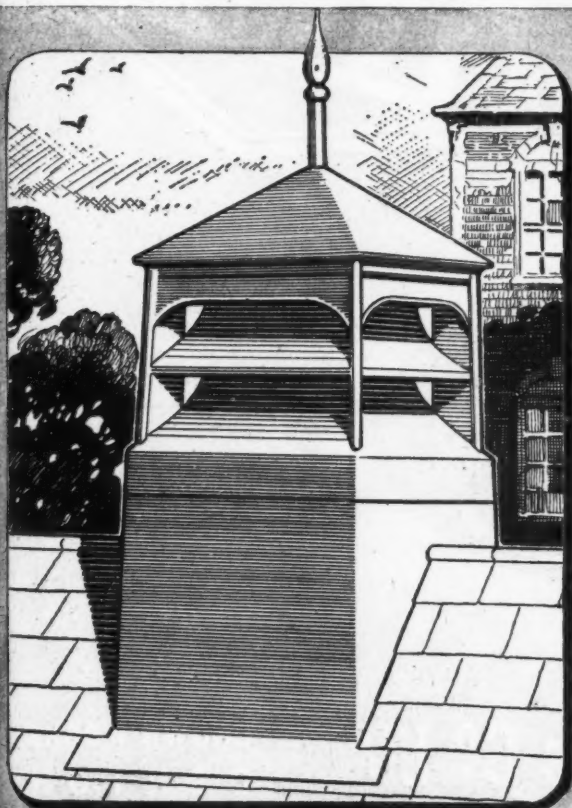
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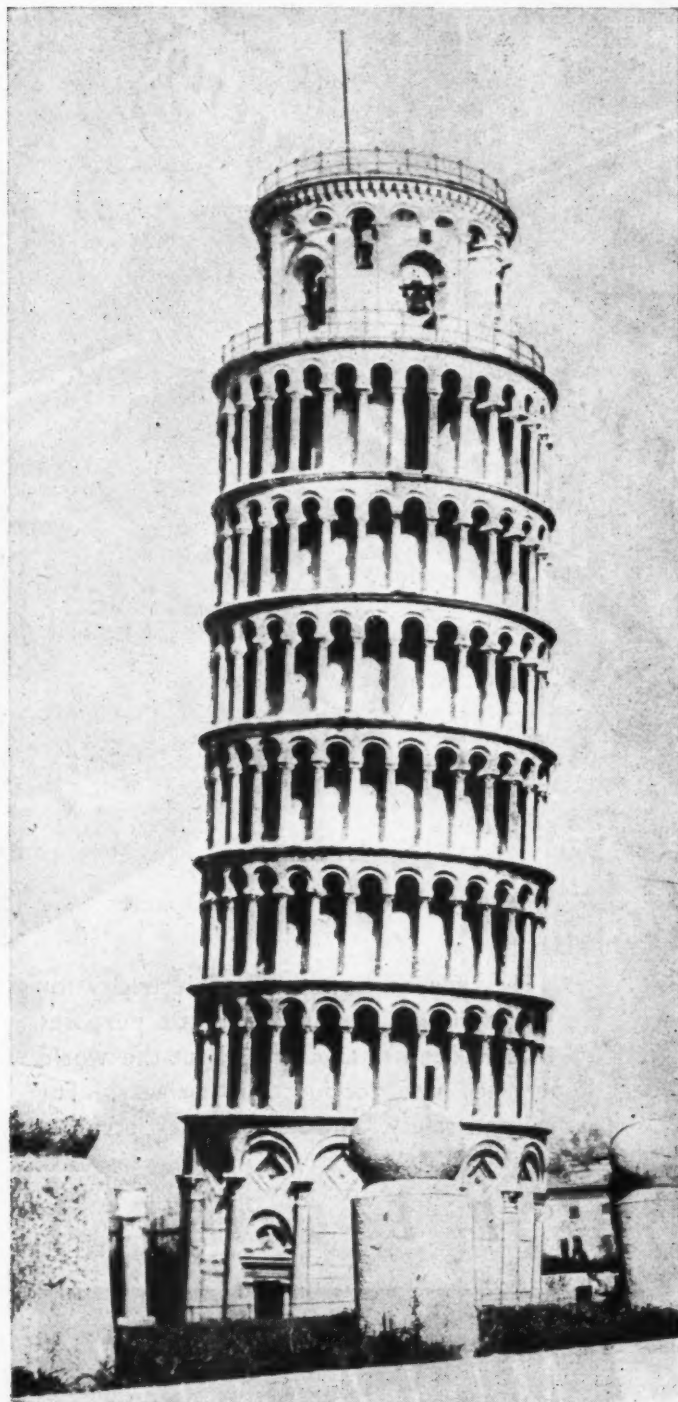
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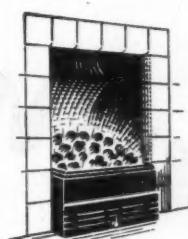
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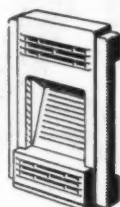
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The "Simon Report" (The Report of the Fuel and Power Advisory Council on Domestic Fuel Policy) states four main objectives: 1. GOOD STANDARDS OF HEATING IN THE HOME. 2. LOW COST AND MORE CONVENIENCE FOR THE HOUSEHOLDER. 3. NATIONAL FUEL ECONOMY. 4. SMOKE ABATEMENT. What appliances would best meet these recommendations with least expenditure of the Nation's coal?



Open coke grate with back boiler. Gas ignition and lever-controlled heat output.

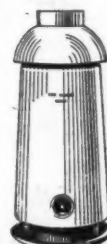


Convector gas fire. Combines radiant and convected heat. Greater economy for long periods.

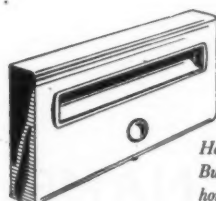
Gas cooker, with thermostat, new-type speedy burners and enamel finish.



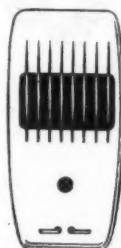
Portable gas heater with new-type metal radiant, silent burner, very low gas rate.



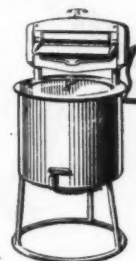
Circulator, for use with solid fuel system for summer baths or winter "booster."



Hall background heater. Burning 6 c. ft. of gas per hour, it gives 1000 c. ft. warmed air per hour.



Instantaneous multi-point water heater.



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The use of gas and coke in the 4 million new dwellings the experts say we require would mean a saving of 7,000,000 tons of coal annually, compared with other systems.

NOTE: "EFFICIENT FUEL SERVICES IN THE HOME" is the title of an informative 36 page booklet, abstracted from a Paper given by Mr. G. C. Holliday, B.A., M.Inst.Gas E., F.Inst.F., at a session of the Public Works, Roads and Transport Congress. Copies free on request.

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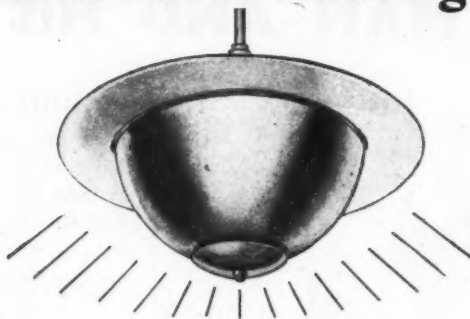
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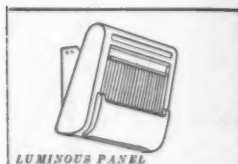
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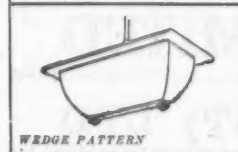
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WEDGE PATTERN

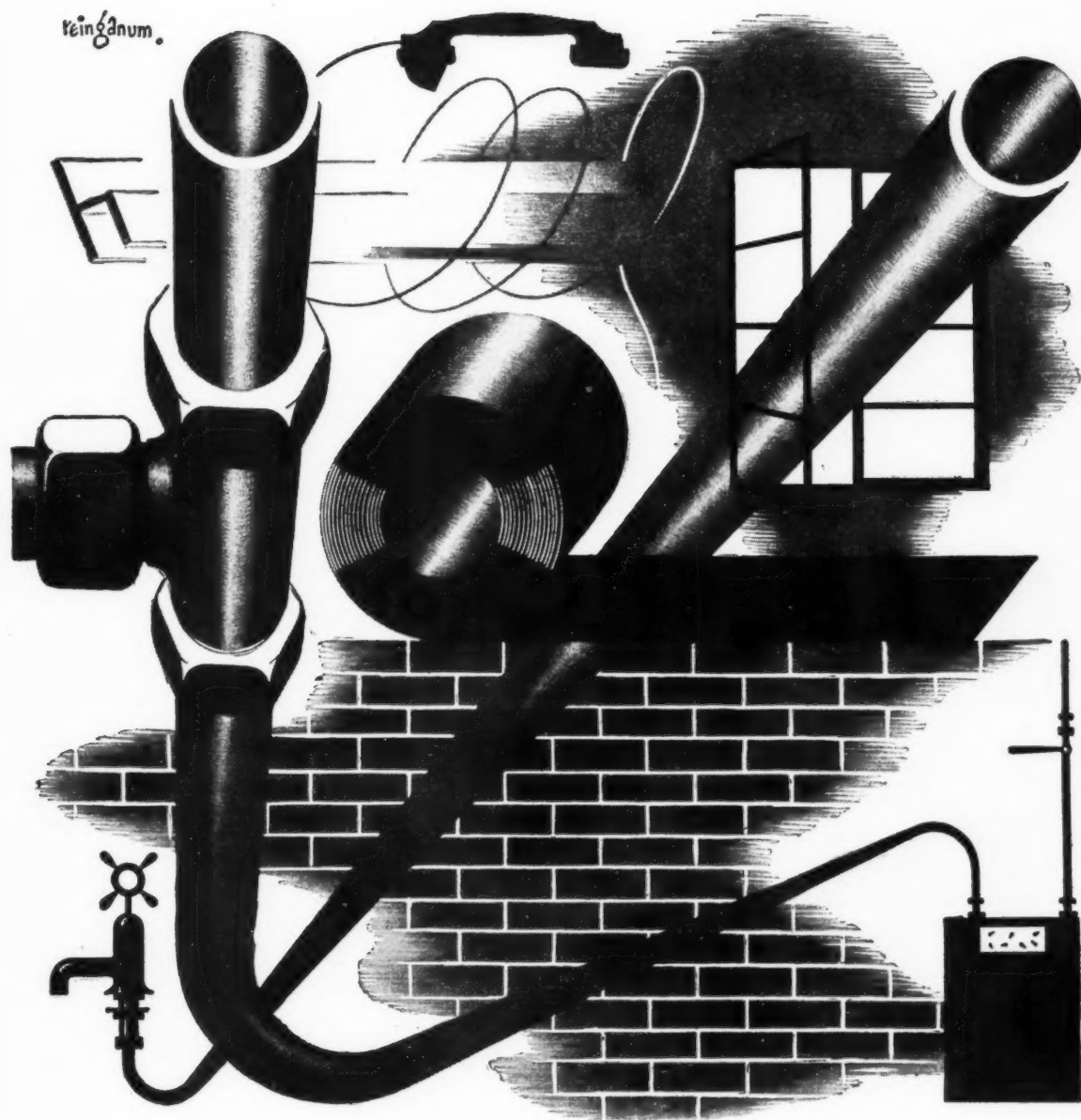


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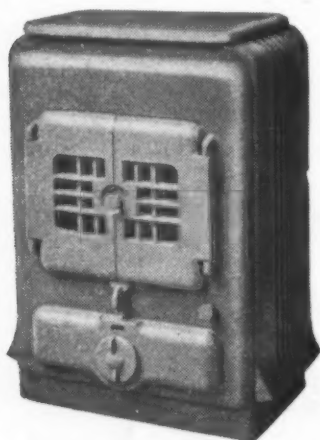
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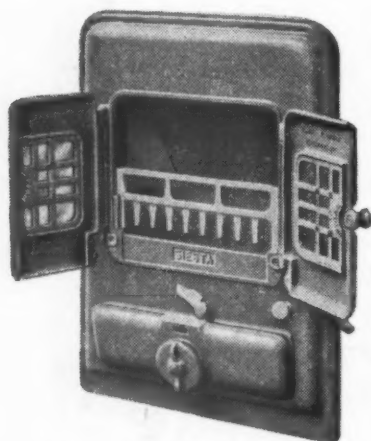
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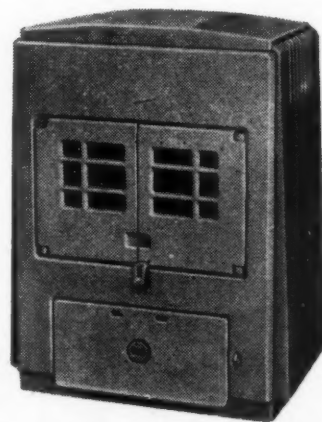
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3c FREE STANDING STOVE

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3d INSET STOVE

Is suitable for space heating, hot water and 'background' heating schemes. It also has doors which disappear into the body of the stove when opened. Width 20½", Height 28½", Depth 13" (Behind Front).

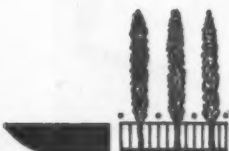
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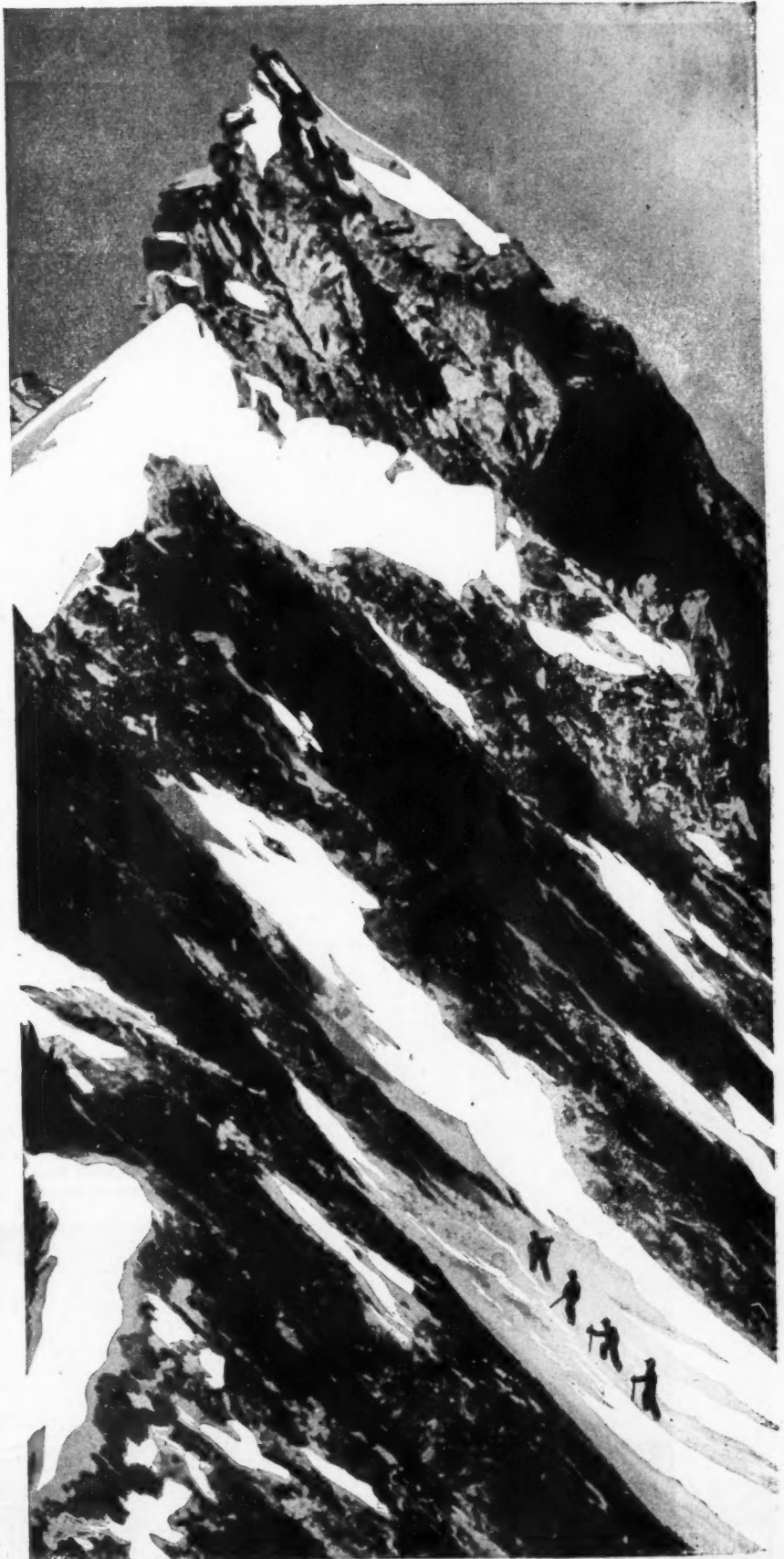
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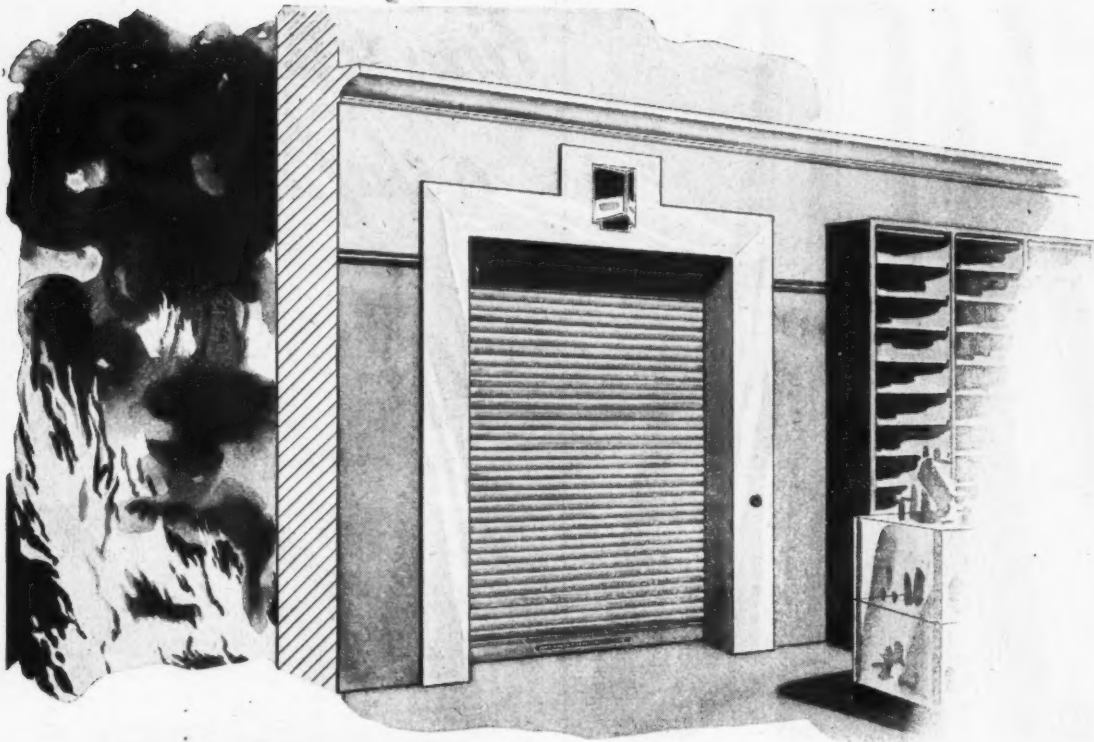
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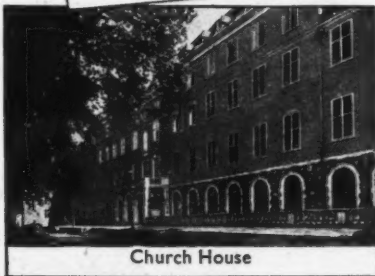
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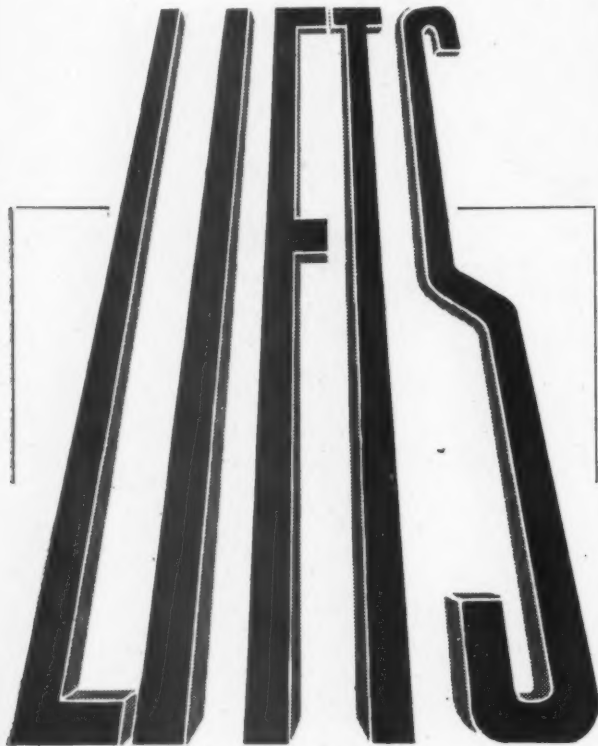
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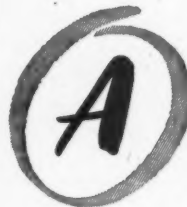
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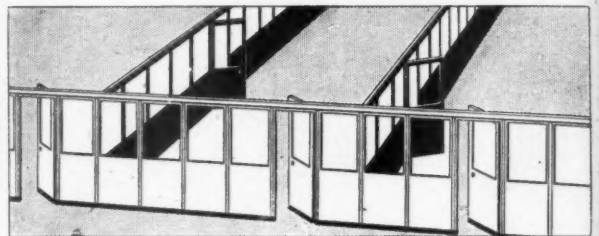


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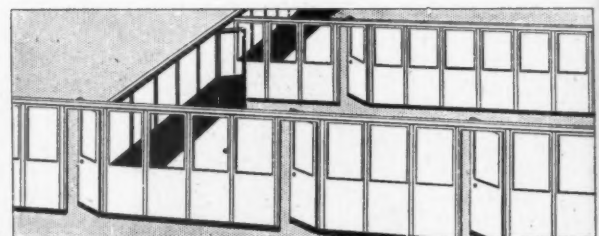
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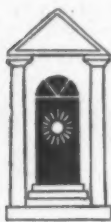
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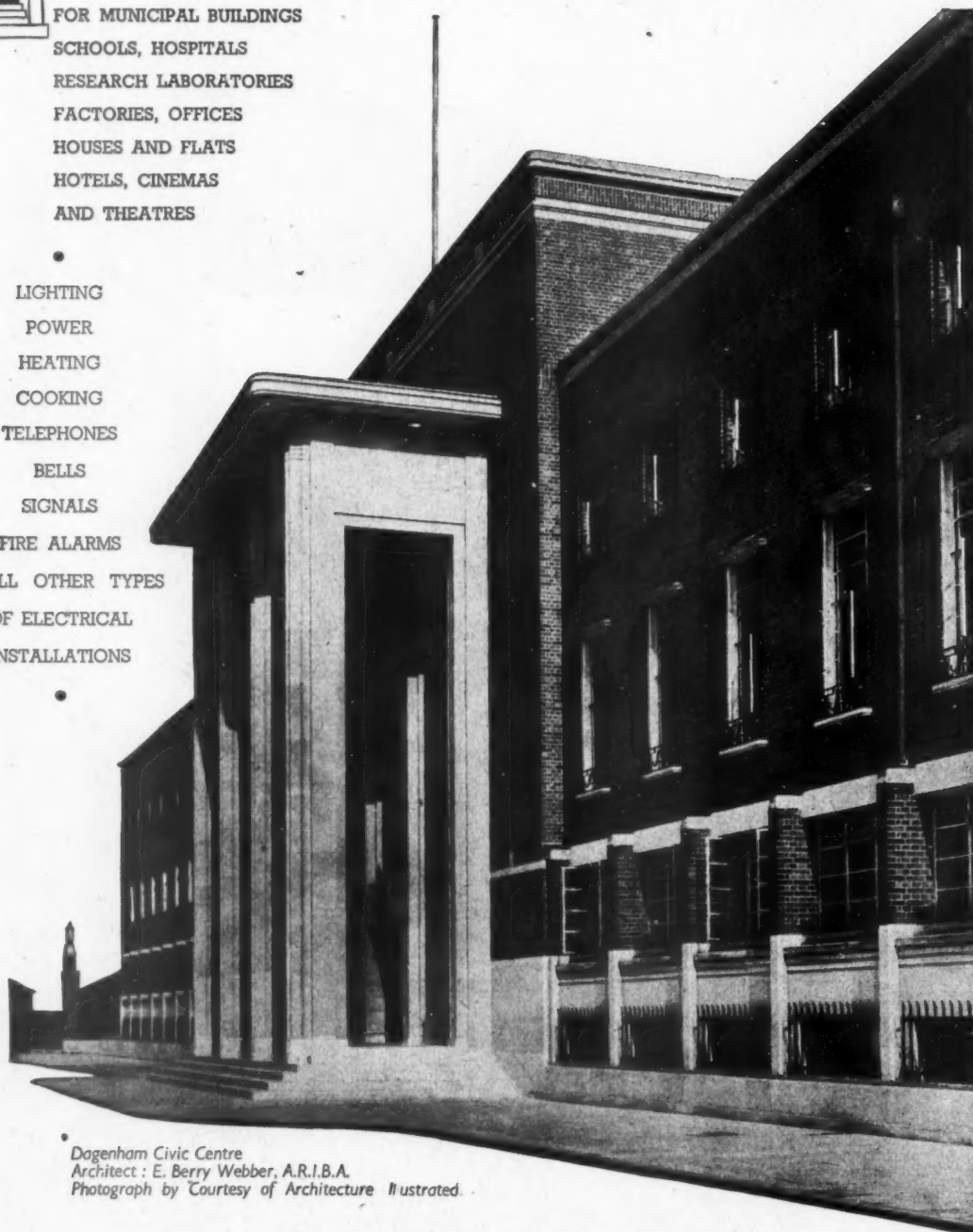
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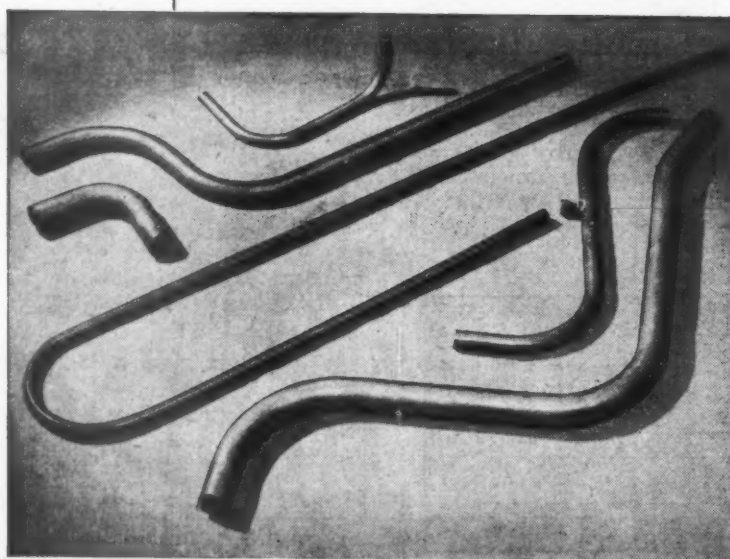
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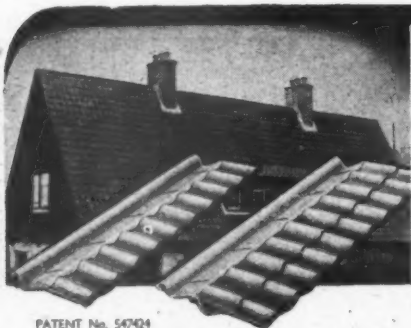
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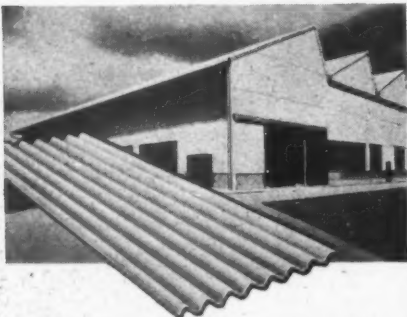
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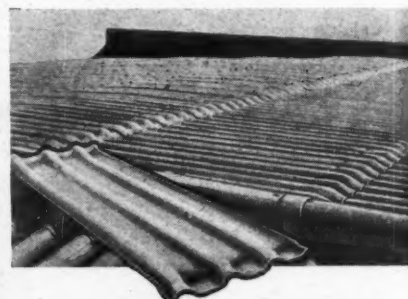
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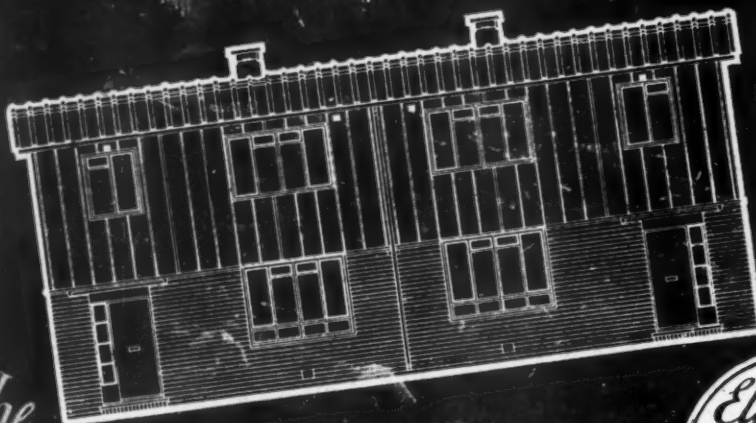


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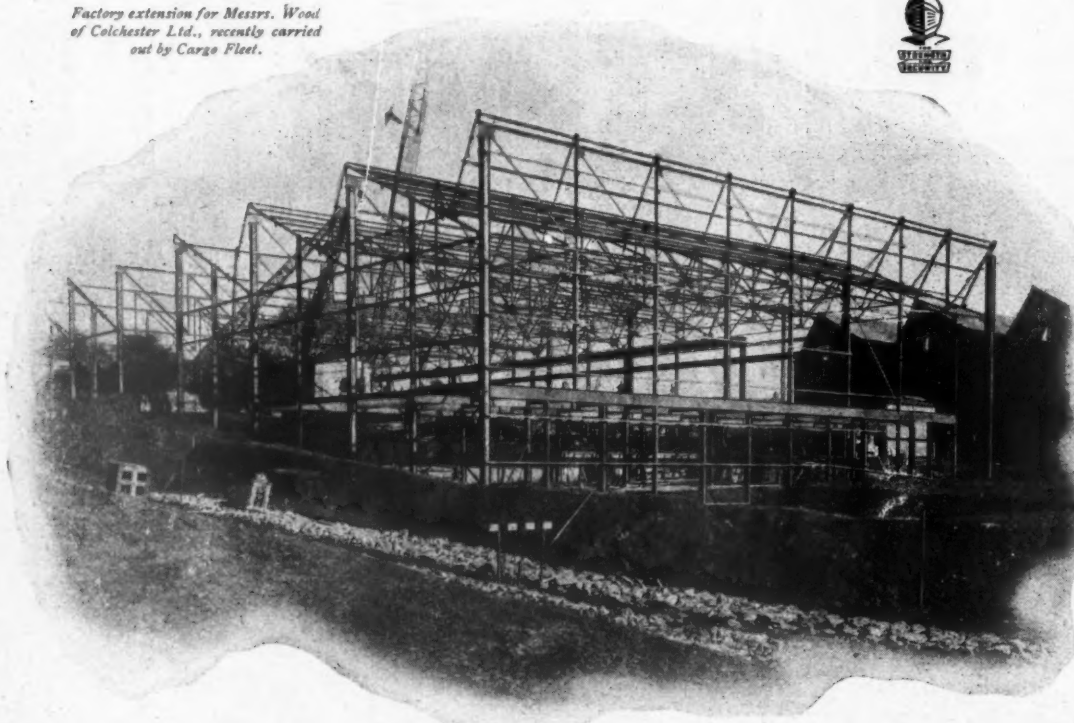
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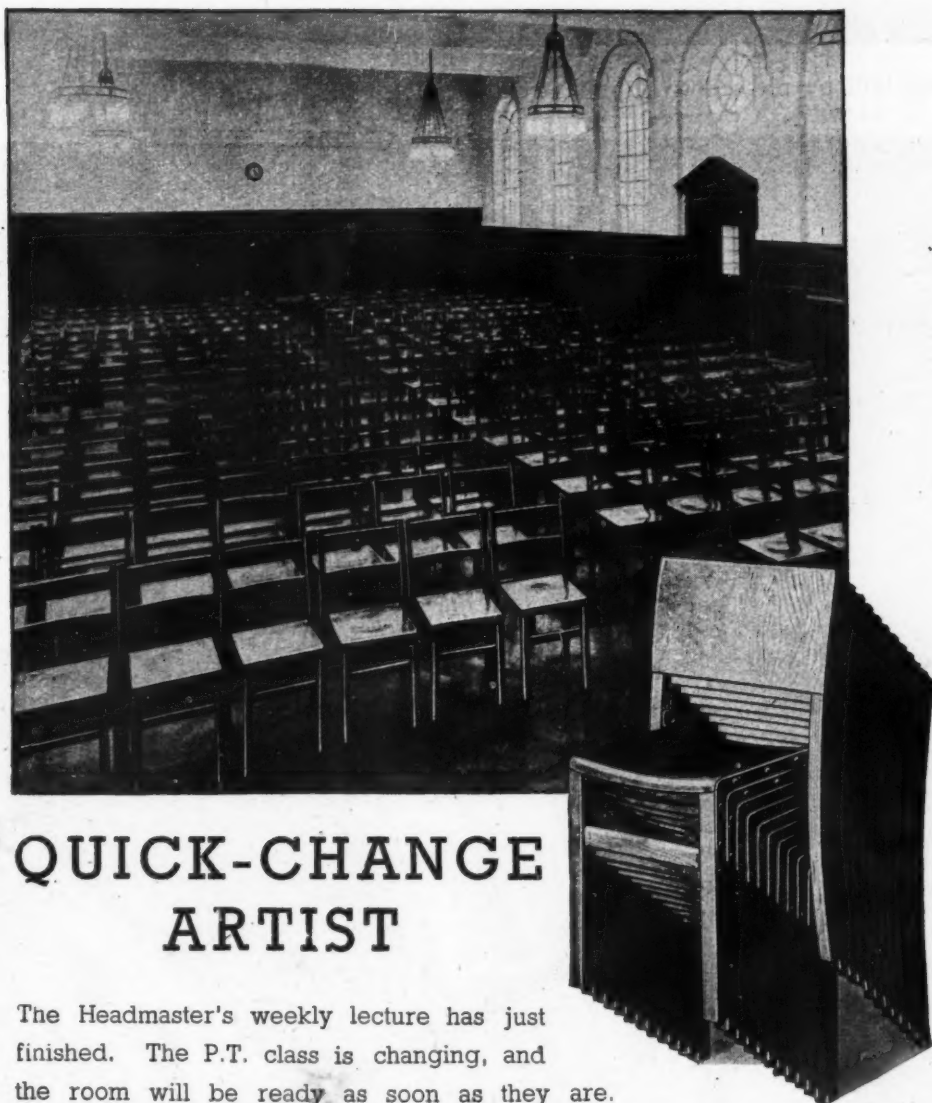
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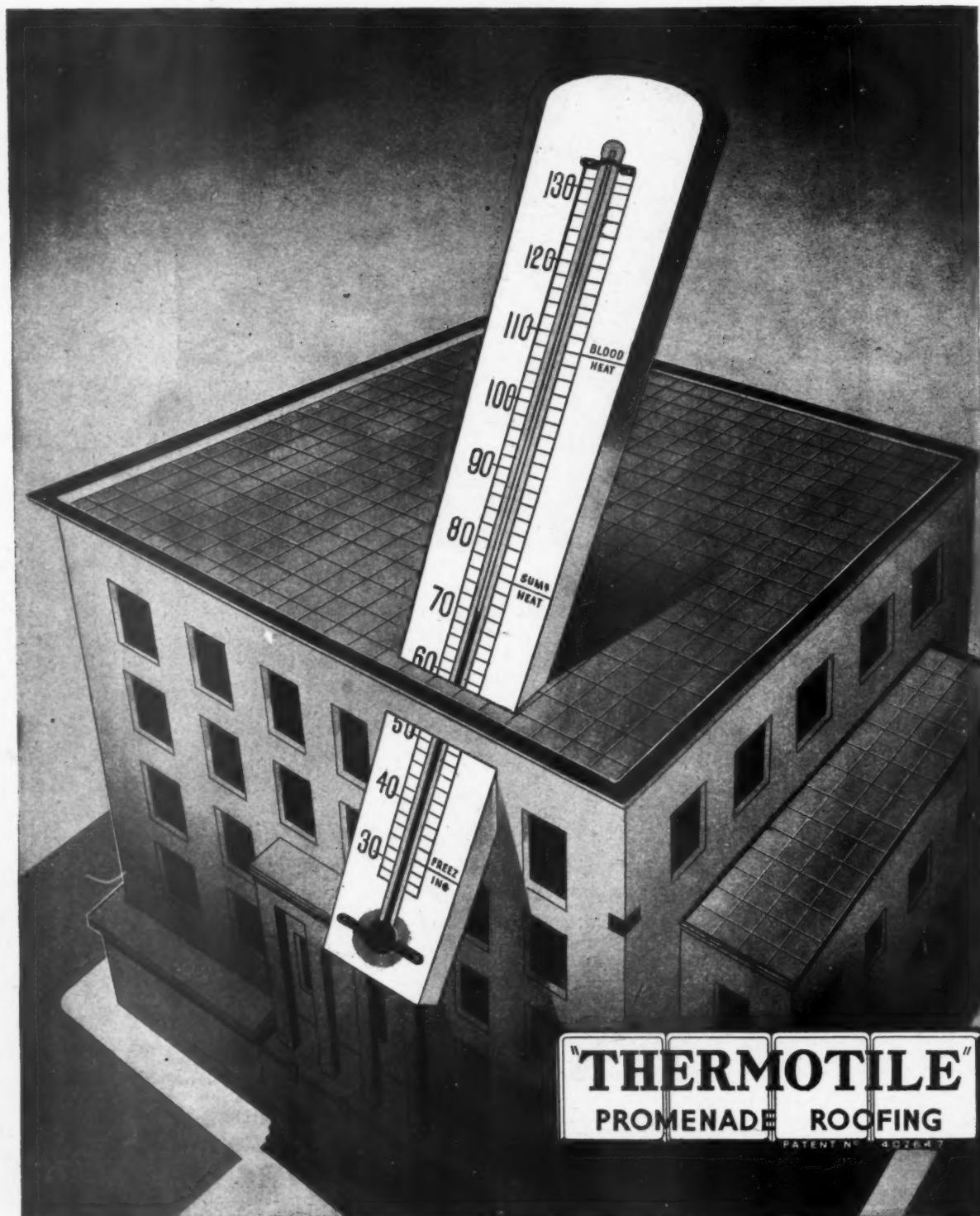
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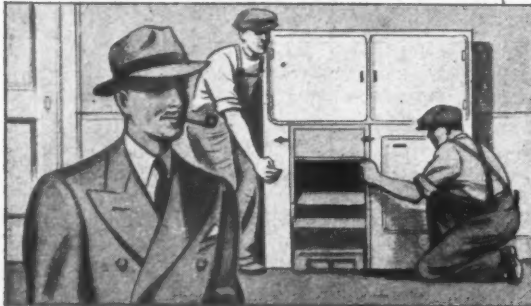
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Going up, yes...but what's going IN?

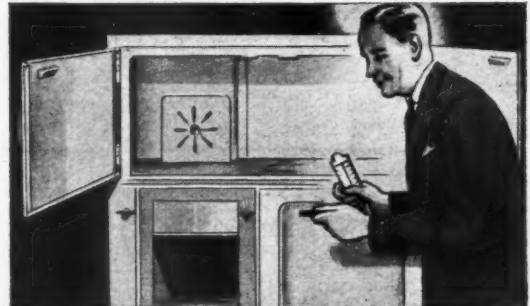


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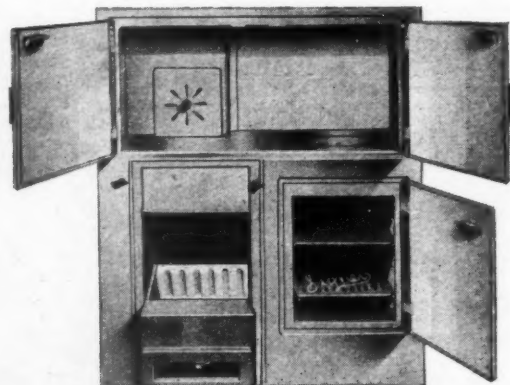
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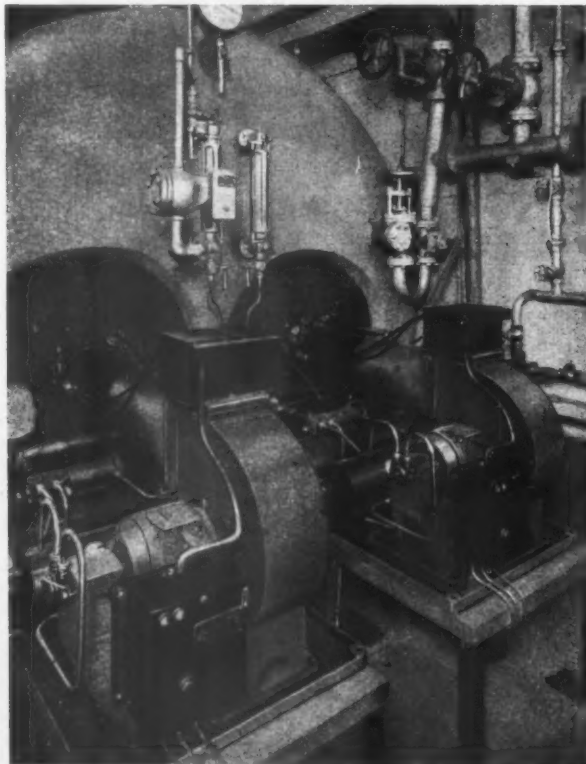
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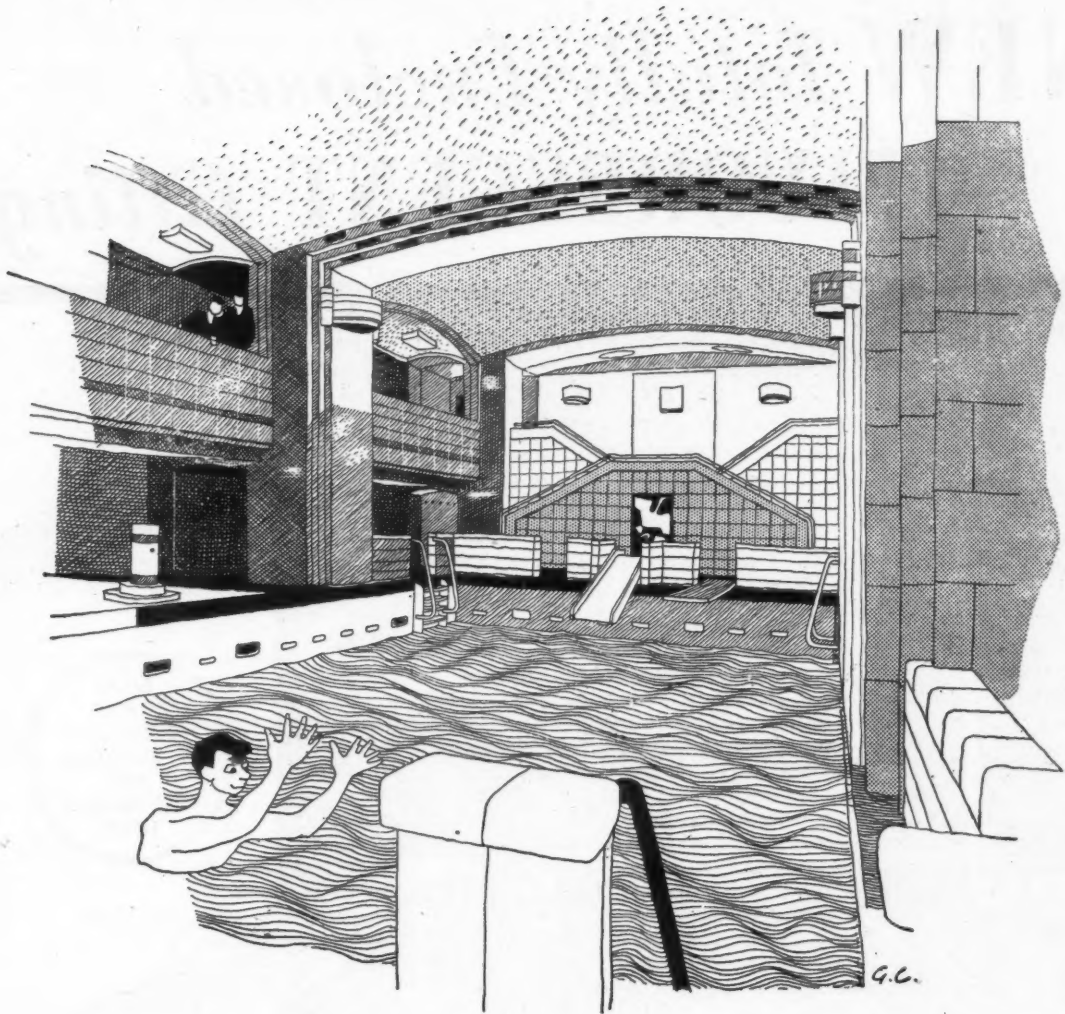
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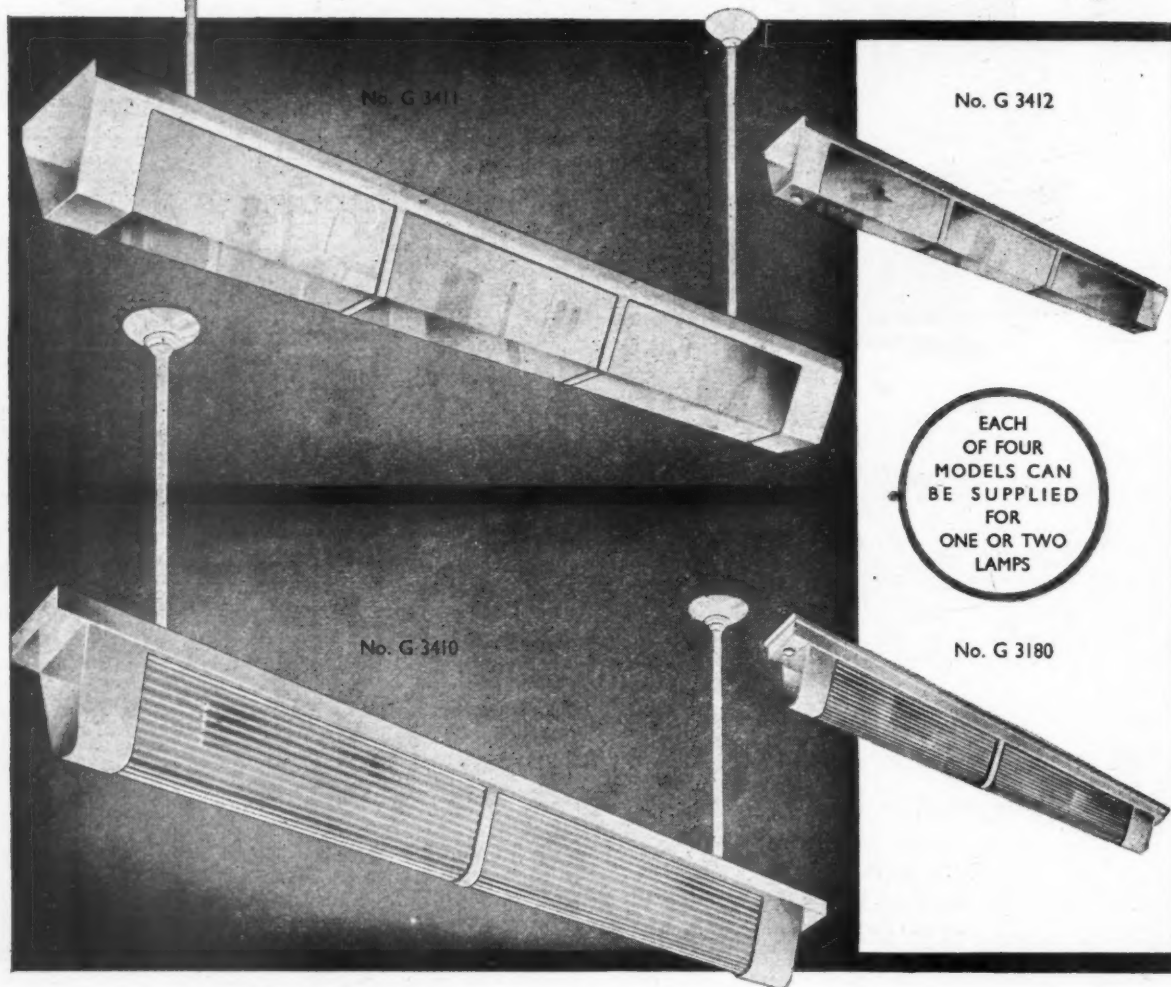


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DIARY FOR MAY JUNE AND JULY

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.

BIRMINGHAM. *British Industries Fair.* At Castle Bromwich. (Sponsor, BOT.) UNTIL MAY 14

BRIDGEWATER. *Design for Living Exhibition.* At the Bridgewater Arts Centre. (Sponsor, ACGB.) UNTIL MAY 8

CHATHAM. *Visit to Fort Luton School.* (Sponsor, S.E. Society of Architects, Maidstone Group.) JULY 10

EASTBOURNE. *Conference of Faculty of Architects and Surveyors.* (Sponsor, FAS.) MAY 18-20

EDINBURGH. *TPI 22nd Annual Country Meeting.* (Sponsor, TPI.) JUNE 4-6

HARROGATE. *RSI Conference.* At Harrogate. (Sponsor, RSI.) MAY 24-28

LIVERPOOL. *British Architects Conference.* (Sponsor, RIBA.) MAY 27-30

LONDON. *Exhibition of Housing Work of Wandsworth Borough Council.* At the Housing Centre, 13, Suffolk Street, S.W.1. UNTIL MAY 14

Inn Crafts Exhibition. Interior decoration and furniture design for licensed premises. At the RBA Galleries, 61, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' Society.) UNTIL MAY 13

Darkness into Daylight Exhibition. At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTIL SEPTEMBER 30

British Industries Fair. At Earl's Court, Olympia, and Birmingham. (Sponsor, BOT.) UNTIL MAY 14

TCPA Annual General Meeting. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 2.30 p.m. MAY 7

Thomas Sharp. Oxford Replanned. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch 12.45 p.m.-1.15 p.m., 2s. 6d. Talk 1.15 p.m.-2.15 p.m. 6d. MAY 11

Graf Wolf-Metternich. The Renaissance in North-West Germany. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, Courtauld Institute.) 3 p.m. MAY 11

J. Summerson. Church Building in Victorian London. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. MAY 11

RSI London Sessional Meeting. A. Leslie Longworth. *Present Standards and Practice in the Field of Ventilation.* At the RSI,

90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. MAY 12

Cosmo Clarke. Craftsmanship in the Countryside. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. MAY 12

G. A. Jellicoe. The Master Plan for Hemel Hempstead. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. MAY 12

IEE General Meeting. At the IEE, Savoy Place, W.C.2. (Sponsor, IEE.) 5.30 p.m. MAY 13

IEE Film Show: Atomic Physics. In the Lecture Theatre of IEE, Savoy Place, W.C.2. Tickets from the Hon. Secretary. (Sponsor, IEE.) 6.45 p.m. MAY 13

F. L. O'Brien. The Northern Ireland Housing Trust. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch at 12.45 p.m. Meeting, 1.15-2.15. MAY 13

Graf Wolf-Metternich. Comparative Systems of Protection of Monuments: Italy, Austria, Germany, France. At the Courtauld Institute 20, Portman Square, W.1. (Sponsor, Courtauld Institute.) 3 p.m. MAY 18

New Schools Exhibition. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) Weekdays 10-6, Saturdays 10-5. MAY 26-JUNE 19 (inclusive)

Lady Pepler. Recent Developments in the Work of the International Federation. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) Buffet lunch 12.45 p.m. Meeting 1.15-2.15 MAY 27

Prof. A. E. Richardson. Craftsmanship. Peter Le Neve Foster Lecture. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. JUNE 2

RIBA Council Election Results. Charles Woodward and Sydney Redfern. *Questions and Answers in Practice.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) JUNE 22

SEVENOAKS. *Visit to Knole Park.* (Sponsor, S.E. Society of Architects, Maidstone Group.) MAY 22

TORONTO. *Canadian International Trade Fair.* At the Exhibition Grounds, Toronto. (Sponsor, Canadian Government Exhibition Commission.) MAY 31-JUNE 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.

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

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

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

The account of the sum expended by the WAR DAMAGE COMMISSION during the year ended March 31, 1947, shows that temporary works and cost of works payments totalled £90,926,111. Issued as a House of Commons Paper, the account states that £42,606,270 went to local authorities and the Ministry of Works for repairs of dwelling houses; a further £3,225,181 also went to local authorities for site clearance, and £45,094,659 was for claimants. Payments to public utility undertakings totalled £1,678,491. On the receipts side was £209,699 for the disposal of materials and salvage. Total payments from April 1, 1941, are given as £437,833,790.*

* War Damage Account. House of Commons Paper 109. HMSO. Id.



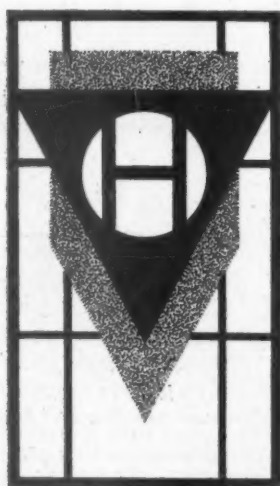
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From AN ARCHITECT'S Commonplace Book

AMSTERDAM AND LONDON. [From *The Netherlands*, by Sacheverell Sitwell (B. T. Batsford, Ltd.).] If we would enquire into the difference between Amsterdam and London, it is that Amsterdam has no fogs, only sea mists, and that in the working class suburbs there are flowers in every window. It is, in the first place, the immensity of London that appals the foreigner. Amsterdam is a much lesser town than London. Its fine old houses are confined to a small area, almost, we might say, to the Keizersgracht and Heerengracht. But the interior mystery of London has often intrigued the foreigner. And there was the London fog, an obscurity such as the present generation has not known, the dark of "black out" being of a different opacity from fog. We will take an opinion, that of a great musician. This is what Ferruccio Busoni has to say of the capital of England: "London is always beautiful, whether in sunshine or in fog. I should describe London architecture as cautious . . . even in their buildings the English want not to attract notice . . . the architecture stands out as a quiet and firm background to history, that I call strength and victory." These words were written in 1919; and they are true of 1946. One of the few and fast diminishing old London interiors, a solicitor's office, shall we say, somewhere near Lincoln's Inn Field or Bedford Square, the part of London most akin to Amsterdam, would show this typical reticence and understatement in the "Adam" mantelpiece, or the classical motifs of urn and honeysuckle in low relief upon the stucco ceiling.

★
Parliamentary authority for EXPENDITURE UP TO £1 MILLION on a national theatre in London is to be sought by the Government.

The State contribution would be used to supplement funds in possession of the National Theatre Committee for construction of a building on a site which the London County Council is willing to allocate in the proposed cultural centre on the south bank of the Thames. Sir Stafford Cripps, Chancellor of the Exchequer, has announced in the House of Commons that it was uncertain that the full total required would be available from private sources, and the intention was to provide an assurance to the parties concerned that they could proceed with their plans with the knowledge that they had the practical support of the Government. Sir Stafford Cripps said: I understand that the LCC is willing to reserve space for a national theatre on the site which it proposes to develop on the south bank as a cultural centre, and to make the land available rent free in exchange for the site already acquired by the National Theatre Committee in South Kensington; but it has asked for an assurance that the necessary funds will be forthcoming to build the theatre. The National Theatre Committee so far has some £70,000 in cash, but this will be quite inadequate to meet the cost of building a theatre, which is now estimated to be in the region of £1 million. There can obviously be no certainty of the committee's being able to raise the rest of the money from private sources. The actual amount to be provided by the Treasury would depend on the total contributions which may have become available from other sources at the time.

Leaders of all parties in both Houses of Parliament have approved proposals for a JOINT PARLIAMENTARY WAR MEMORIAL and SEPARATE MEMORIALS FOR EACH HOUSE.

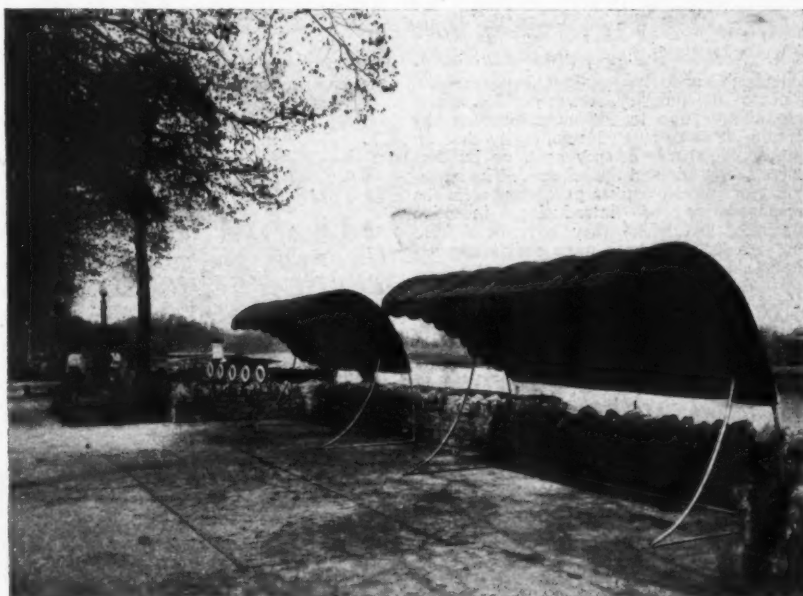
A new stained-glass window in Westminster Hall will be the main feature of the Parliamentary memorial. The joint memorial scheme, drawn up by a committee over which the Speaker presided, commemorates the 57 members and servants of both Houses who fell in the 1939-45 war. Their names will be added to the existing war memorial

in Westminster Hall. The stained-glass window behind the memorial was severely damaged in an air raid during the war, and it is hoped to replace this by another with the royal coat of arms in the centre surrounded by the unit badges of those whose names are to be inscribed on the memorial. It is estimated that the cost of the scheme will be about £10,000, and to enable work on it to begin as soon as possible an appeal for subscriptions, signed by the leaders of the parties, will shortly be addressed to members of past and present Parliaments. A small committee is responsible for the plan for the Commons war memorial. The 19 M.P.s who lost their lives in the 1914-18 war were commemorated by shields emblazoned with their coats of arms. These were destroyed with the Commons Chamber in 1941. They will be refashioned and placed beneath the South Gallery in the new Chamber, and 22 shields, similarly com-

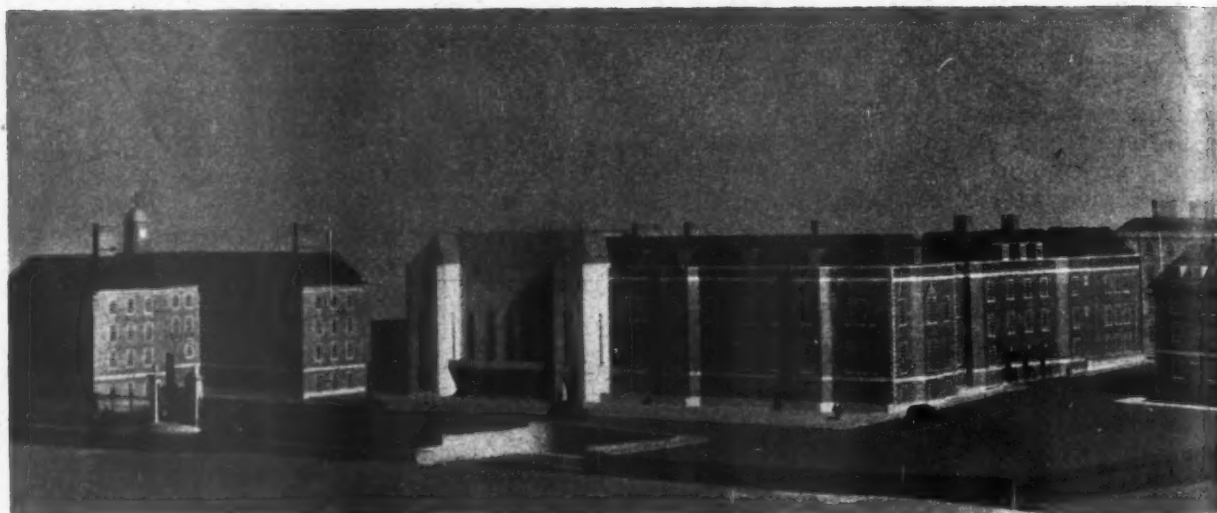
memorating M.P.s who died in the last war, will be placed beneath the North Gallery. The cost of these proposals will be about £900.

The Archdeacon of Bath, the Ven. E. A. Cook, has announced that THE WEST FRONT OF BATH ABBEY IS BADLY DECAYED.

A world-wide appeal for funds for the restoration of the fabric generally will be launched soon. It is stated that not only does the west front need thorough restoration but the whole of the roof of the south aisle is in bad condition. The War Damage Commission will probably restore one window which suffered from blast.



Part of the Royal Borough of New Windsor's scheme for the river front development is the provision of street traders' shelters. Recesses have been formed in the promenade to receive the shelters, which are constructed of tubular steel and covered with red and green striped canopies. The shelters have been designed by Geoffrey S. Baker, Borough Engineer, and F. J. Pook, Chief Architectural Assistant. The steel frames were made by A. H. Hillier, of Slough, and the canopies by Messrs. Hart & Co., of Windsor.



The New Inner Temple

The elevational treatment of Mr. J. Hubert Worthington's design for rebuilding the most severely damaged portion of the Inner Temple is publicly shown for the first time at this year's Royal Academy Exhibition. The lay-out plan, together with Messrs. Clyde Young and Edward Maufe's plan for the Middle Temple, was illustrated in the AJ for April 15. Above is the model of the Inner Temple, which is exhibit No. 1217 in the Architecture Room. The model was made by Edmund J. Thring. On the left is the

replanned Crown Office Row, with its archway leading into Middle Temple Lane. In the centre is the new Inner Temple Hall (to be built in stone—the rest of the buildings are brick), and on the right of it the new Library and Parliament Chamber, with a triple archway beneath the north wing leading to Tanfield Court and the Temple Church. Beyond is Mitre Court Building, with the destroyed portion rebuilt to match the surviving portion, and on the extreme right the restored King's Bench Walk.

NFBTE have begun an inquiry to ascertain the extent to which INCENTIVE PAYMENTS have been introduced into the industry, the character they are taking, and the results they are achieving. Although, after negotiations between both sides of the industry, it was decided nearly six months ago to introduce payment by results, it is calculated unofficially that no more than 10 to 15 per cent. of builders have as yet adopted the scheme. The agreement of last November gave employers the responsibility of introducing incentive schemes, and where they have been tried out results have been most satisfactory on both sides.

It has been decided that DUNDEE'S SECOND WORLD WAR MEMORIAL will take the form of a SPECIAL HOUSING SCHEME for ex-Service men and their dependants. Provision may be made in the lay-out of the scheme for a small chapel or shrine, in which a roll of honour will be kept. The Lord Provost (Mr. A. Powrie), who is chairman of the committee dealing with the memorial, said the scheme might consist of about 500 houses. Priority in the occupancy of the houses will be given to 100 per cent. disabled men. The support of Dundee Corporation is to be sought for the formation of a grant-aided housing association to build the houses, and an appeal will be issued to the public for subscriptions.

Among suggestions not pursued by the committee was one that the three city churches in Nethergate should be combined into one large church incorporating a memorial chapel. The Rev. Dr. J. H. Duncan, minister of Dundee (St. Mary's), pointed out that it would not be merely a matter of knocking down intervening walls, as was done with St. John's Church, Perth, after the first world war.

★ *Mr. Bevan, Minister of Health, speaking at a recent Labour Party meeting at Cambridge, said that the Government had already started to REVISE THE HOUSING PROGRAMME FOR NEXT YEAR.*

It was going to be much better than they had expected. He could not give the exact figure but it would be substantially more than the 140,000 houses announced in the House of Commons. On the 1948 programme 200,000 permanent houses would be finished this year, and by the next General Election the back of the housing programme would have been broken. By the end of this year we should have easily passed the 750,000 houses that were the target set down by the Coalition Government on paper.

The use of Post Office Red as the STANDARD COLOUR OF TELEPHONE KIOSKS is to be continued. This has been confirmed in discussions between the Post Office, the Royal Fine Art

Commission, and representatives of the Ministry of Town and Country Planning and the Council for the Preservation of Rural England. The Post Office had been asked by various organizations and public bodies for special colours for kiosks in certain locations, but it has been agreed that exception to the standard red should be allowed only in rare cases, where a kiosk is sited on a spot of exceptional natural beauty. The experts recommend that the only alternative colour for these exceptional cases should be battleship grey with window bars and frames outlined in red.

Sir Noel Curtis-Bennett, chairman of the National Playing Fields Association, has stressed the importance of securing the PROPER DESIGNATION OF SITES FOR PLAYING FIELDS AND PLAYGROUNDS in local development plans under the Town and Country Planning Act.

Sir Noel was speaking at the annual meeting of the Kent County Playing Fields Association. The Act, which comes into force on July 1, provided, he said, great opportunities for playing fields. It required that as soon as may be after the appointed day every local planning authority should carry out a survey of its area, and within three years should submit the results to the Minister, showing the way in which it was proposed that the land should be used. They should see that designated sites were taken up and laid out within the statutory period.

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*The report of the committee appointed by the Minister of Works to enquire into the DISTRIBUTION OF BUILDING MATERIALS AND COMPONENTS has now been published.**

Restrictive arrangements affecting the distribution of building materials and components are stated to exist on a wide scale. In the view of the committee, these restrictive practices are not in the national interest, and as a long-term measure it is regarded as essential that they should so far as possible be eliminated. The committee was set up in July, 1946. Its report reaches the conclusion that the builders' merchants provide services essential to the efficient conduct of the industry.

In 1946, the report states, the gross margin for all merchants covered by the committee's inquiry was 20.97 per cent.; total expenses were 14.27 per cent., and the net profit was 6.7 per cent. on sales turnover. The committee is informed by the Ministry of Works that the average annual turnover may be fairly taken to be four times the capital employed. If a net annual profit of 10 per cent. on capital employed is reasonable, the report continues, this would involve a net profit on turnover of 2½ per cent. "In fact, the actual net profits on turnover in 1946 of 6.7 per cent. would on this basis represent a return of 26.8 per cent. on capital employed." The committee thinks it is reasonable to believe that the renewal of price competition would not only reduce the net profit margin, but would also make substantial reductions in the heavy distribution cost of over 14 per cent. on the turnover of building materials.

Commenting on the report, the Distributors of Builders' Supplies Joint Council has said: "The committee appear to be much concerned because builders' merchants made good profits in 1946, but ignore the fact that both 1938 and 1946 were entirely unrepresentative. The year 1946 was a period of steeply-rising prices (many due, directly or indirectly, to Government action), combined with heavy demand and insufficient supply. To adopt a slump year and a boom year for purposes of comparison is not sound."

* The Distribution of Building Materials and Components. HMSO, 2s. 6d.

Flint Borough Council have opened at Bagillt the first houses to be built by them with DIRECT LABOUR.

The Council recruited their own building force and in December made a start on ten houses, under the supervision of the Borough Surveyor, Mr. W. J. Avery. Two houses have been completed and eight others are nearing completion. A further twenty are to be built. The scheme, regarded as unique in North Wales, provides an incentive bonus for the workmen, based on the saving on the estimated cost achieved by their own speed and efficiency. As each block is completed the up-to-date cost is ascertained and the amount saved is divided equally between the Council and the men.

At Stourbridge one of the few remaining houses in the country to be CONSTRUCTED ENTIRELY OF MUD is to be demolished.

The house is in bad condition and its site is required to make way for road improvements. Stourbridge Council are willing to give ample facilities to antiquarians who want to study the house's architecture and history. It is believed to be about 200 years old.

THE ARCHITECTURE ROOM

THE ordinary visitor to the Royal Academy Summer Exhibition seldom penetrates to the Architecture Room, and if he does so is rewarded with the opportunity of examining a curious miscellany of drawings, perspectives, models, stained glass and bits of sculpture destined to decorate buildings. While admitting that the Academy exhibition is intended primarily to show painting and sculpture, the architectural profession often wonders whether this display is adequate, and the present moment is perhaps a good one to examine the question again, since the cause of good architecture needs public interest and support more today than ever before. The importance of the Royal Academy Exhibition is that it is the only opportunity that architects have of presenting architecture to the public. There are many exhibitions of paintings and sculpture of every size and kind. Architecture by its nature cannot be shown in quite the same way, and the layman (who is not a reader of architectural journals) must rely for information about the state of current architectural ideas largely on the annual exhibitions at Burlington House. These could fulfil a most valuable function in forming and developing public architectural taste in this country and summarising the architectural climate for the foreign visitor who has but little opportunity of seeking out contemporary buildings.

In the last century, the public was given some opportunity of examining the designs and proposals for important buildings, both public and private, through—amongst other media—the engravings that appeared in the weekly illustrated papers. This arrangement had a double advantage; not only was interest in contemporary architecture developed and public appreciation encouraged, but architects and the commissioning authorities were able to test the reaction to their proposals in advance. Today, though occasionally important proposals may be published in advance in the daily press, such a practice is rare and generally the public finds itself presented with an accomplished fact in the shape of the completed building.

Here then is one worth-while development: all important architectural projects should be on view in the Architecture Room at Burlington House, illustrated by drawings and models designed to make the architects' intentions clear and not to display the virtuosity of a perspective artist. To make such architectural pre-views serve the purpose defined above, the selection committee would have to be guided to some extent by the importance of the project and its architectural significance in terms of contemporary development rather than by any stylistic predilections. Neither should projects which have no immediate chance of being built be excluded, because these are often the breeding ground of the most enterprising architectural ideas, in the criticism of which the public should be allowed to play its part.

The second purpose of the Royal Academy Exhibition is to show

completed works of distinction. These were, until recently, shown in more or less skilfully rendered perspectives. Now, however, photographs are admitted and it should be made a rule that executed buildings should be shown only by photographs, supplemented by architects' geometrical drawings—plans, sections and elevations. The interpellation of the minor art of architectural perspective rendering, especially as practised today, only confuses the simple issue of representing a work of architecture. For the professional visitor, the architect's own drawings do this best; for the ordinary visitor, good photographs give the best idea of what a completed building looks like.

The Royal Academy, in spite of its shortcomings, still retains immense prestige with the general public. This prestige could be used to further the cause of good architecture, which depends in the long run not only on the ability of the architect but on the informed understanding of his client and the public. A reformed Architecture Room, designed to exhibit for public criticism the best architectural ideas and to give a real picture of the leading works of contemporary architecture, could be one of the most popular and stimulating rooms at Burlington House.



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COSTS IN THE BUILDING INDUSTRY

The Report* of Lord Simon's Committee, although it has been seized upon by some of the dailies as an exposure of the most sinister goings-on in the building industry, makes, in fact, no startling revelations, though it is very far from being a piece of white-washing. Builders' merchants, for instance, come in for a good deal of criticism, but "we are satisfied that they provide services which are essen-

tial to the efficient carrying on of the building industry." So far as restrictive practices are concerned, every architect knows only too well that there are a number of price-control and market-sharing agreements among manufacturers, but the Government has already announced its intention to legislate against restrictive practices in the whole field of industry. As a whole, the Report makes interesting reading and contains a lot of information on the price structure of the industry, about which architects know all too little.

THAT BIF

Before the war the BIF—so far as architects and others interested in design were concerned—was merely a synonym for insipidity and vulgarity. Largely owing to the pioneer work of Misha Black and his MOI associates the reverse is now true. Standards of design, so far as layout and display go, are higher than ever.

Chief feature at Olympia is Basil Spence's roof-touching constructivist pylon hung with coloured signs—a bit complicated as a signpost, but exciting to look at. At Earls Court—how miserably this gloomy modern building compares with its old-fashioned but elegant rival Olympia—we again have a pylon with pendent signs, this time

by Maxwell Fry and set up outside. Throughout both halls the appearance of the standard floors, wall and fascias (all of unit construction) is excellent—not always so excellent when individual designers depart from their use.

At Castle Bromwich also—usually the graveyard of display design—standards are gradually rising, particularly at the top end, where ICI and Tube Investments, Ltd., have groups of stands. There is also a fine example of "Rocksy" Thomas's Ascot style, a stand built, it appears, entirely of knapped flint, dressed granite and naked rock.

During one of my visits to Olympia I happened in on a workers' meeting called to deal with a demand for a pay rise. Three resolutions were being discussed: (a) to strike, (b) not to strike (but not to do overtime), (c) to carry on and let representatives continue negotiations. After a couple of hours, resolution (c) won the day by a majority of about 100, the pro-strikers claiming unsuccessfully a recount. Attendance, pretty well 100 per cent. (some 600-700 men). Tempers, fairly amiable. Speeches, indifferent. Attention to speakers, desultory. Result, a couple of hours wasted; anything from £5-£100 extra on the cost of nearly every stand (paid, presumably, by exhibitor), a certain amount of damage from careless feet, but a victory, it seemed, for common sense.

Banal conclusions from an inexperienced outsider ignorant of points at issue: (a) quick-witted speaking, however irrelevant the words, is more successful than slower but more reasoned argument; (b) pro-strike types seem to run to traditional form—dirty rain-coats, pale faces, strongly Celtic accents; (c) grievances in this case seemed more formal than sincere. Men work hard and long in the exhibition business. They deserve, and I think earn, reasonably good pay. Working conditions seem to vary little from year to year. Yet annually there is this demand from somebody for a bit extra per hour, always made after erecting work has started and not, surely, as it should be, before. Inevitably this savours so much of blackmail that the genuine grievance becomes submerged

* The Distribution of Building Materials and Components. H.M. Stationery Office, 2s. 6d.

in the bunch of annual "try-ons." The employer as a rule pays up. What else can he do? Costs rise year by year, and eventually the exhibitor will refuse to play. Already, in the opinion of many in the business, prices are ludicrously high, particularly when you remember that nearly everything the exhibitor pays for is on loan only and returns to the contractor at the end of the show. Whether the profits of the contractor are, in fact, unreasonably large, and whether the share of the workman in these profits is unreasonably low, are questions I am not qualified to discuss. There seems little doubt, however, that the whole exhibition business is in many ways unhealthy and is due for a general overhaul.

... AND SEVERAL OTHERS

This has been truly a monster week for exhibitions, and I only have space to comment on the others very briefly. Besides the BIF there is that even harder annual, the Royal Academy show at Burlington House. The Architecture Room serves a useful purpose in showing the public what architects are up to, especially architects let loose on important sites. But the Academy's more important function than to give news about building projects is to foster the art of architecture, and I can only say, frankly and sorrowfully, that the average standard in this year's show is more deplorable than I ever remember in the past.

Readers may think differently, and as the whole question of the purpose the Academy show really serves is discussed, I understand, in this week's leading article, I will leave it at that. The only thing I can say on the credit side is that there seemed to be a larger proportion of fairly straightforward drawings than usual, and fewer highly-coloured perspective renderings. But it is still true that the best portrayals of architecture are to be found in the other galleries, where several painters—of whom Algernon Newton is the best known—depict buildings as real-life objects with characters of their own, not as a collection of draughtsman's clichés. Note especially Lord Methuen's Thames-side panorama and Donald Towner's interior of St. Paul's.

Then there is the Inn Crafts Exhibition at the RBA Galleries in Suffolk Street. This is charmingly displayed by Robert Goodden and R. D. Russell, but the actual exhibits are disappointing. As an exhibition of arts and crafts it would pass, but as a contribution to the admittedly difficult problem of the contemporary pub, I found it altogether too precious and genteel. The designs for painted pub signs will arouse the most interest; they vary from the intolerably arty to the conventionally heraldic, but there are a few (notably the Cock near the entrance) that one would greet with pleasure if one saw them in a village street.

The most satisfactory standard of design is undoubtedly reached by the dray-horses' harness, but then this is traditional—almost untouched by the artist-craftsmen. The brewers have supported this exhibition nobly, and I hope they will not be discouraged by what appears in it, because the pub is an individual thing and someone must stop the increasing tendency to standardization.

Finally a brief word to commend an Edinburgh exhibition about the new Health Services—see illustration. The standard achieved by these official exhibitions is one that Britain can be really proud of.

ASTRAGAL.

In Parliament

The question whether a university should have the power to acquire compulsorily land for the extension of its premises was argued out on the floor of the House of Commons the week before last.

The issue arose during consideration of a private Bill—the University of Sheffield (Lands) Bill—which Mr. C. S. Taylor (Con.—Eastbourne) sought to reject. He questioned first whether a university should be given these powers of compulsory acquisition; second, whether, if the powers were granted, they should be on the same terms as those enjoyed by the central government or by local authorities; and third, whether Sheffield University needed the powers today when there was such a shortage of living accommodation. The member believed that if Parliament granted these powers to a university there was no reason why bodies like the Salvation Army or the Council for the Preservation of Rural England should not apply for them.

Mr. Taylor was also concerned about the financial terms involved and declared that if a university, which served only a limited part of the community, wished to acquire land for extension, it should be prepared to pay a fair price for the land and buildings concerned. In this case those who were seeking to occupy land and buildings would be depriving people not only of their business accommodation but also of their living accommodation.

Mr. T. W. Burden (Lab.—Sheffield, Park) said that the university, in order to meet the developing needs of education, must expand. There were 53 houses involved in the acquisition, yet a petition had come from only one owner of four houses. He assumed from this that the other owners of property were satisfied that they would get a square deal from the Board of Governors of the university. After further arguments, for and against, weighty support for the Bill came from Mr. Glenvil Hall, Financial Secretary to the Treasury, who said the Government wholeheartedly backed the measure.

Sheffield University served students who came from a wide area, covering several counties. Its history went back over 40 years and it had been steadily expanding. Today, its students numbered some 1,700, and it was hoped, through this extension, to cater for over 3,000. He reminded the House that the university was providing just the type of technicians and professional men of which the country was in need today. It would, therefore, be unfortunate if members refused to pass the measure. Members did not refuse, and the Bill got through without a division.



From an exhibition on the new Health Service, at Waverley Market, Edinburgh. It has been designed for the Department of Health for Scotland by Wornett Kennedy.

PLANNING for the FILM INDUSTRY

[by K. S. Craddock]

THE film industry is one upon which there exists very little data. Nevertheless, the desirable planning considerations relating to it are of some interest, since, in the light of the present economic situation, it is regarded as an important national industry. The fact that the Government regard film making as a factor in the drive for dollars will probably lead to an increase in the demand for land for studios, although at the time of writing work appears to be concentrated upon the enlargement of the existing film centres and the extension of existing studios. The eventual use of considerably increased areas of land not only for studio buildings but also for the shooting of outdoor scenes will, moreover, have to be reckoned with by planning authorities in the future, and provision will have to be made accordingly in development plans under the Town and Country Planning Act, 1947.

The most important British centres from the point of view of stage space are Elstree and Denham, with other fairly large but isolated studios at Shepperton (Sound City) and Iver Heath (Pinewood). There are smaller studios at Shephard's Bush, Ealing, Teddington, Welwyn and Hammersmith, and very small ones elsewhere—such as those at Highbury, Islington and Bushey Heath. According to the Board of Trade White Paper, *Tendencies to Monopoly in the Cinematograph Film Industry* (1944), the greatest concentration of studio stage floor space is at Elstree, with 328,000 square feet, followed by Denham, 111,000 square feet, a balance of 267,500 square feet being distributed amongst the smaller scattered concerns. It must be borne in mind, however, that this was an abnormal period with war-time conditions predominating.

The reasons for the location of the industry are well dealt with by H. Junge in a useful little book on a subject for which there is a great need of documentation. This is *Plan for Film Studios* (Focal Press):—

"The industry was built up gradually over a period of years. The studios were all erected separately by individual companies, some producing, others non-producing. In short, there has never been a planned approach; and each company erected studios where it suited them or where they were able to obtain a site on favourable terms. One thing however they all had in common: the dependability on the London stage for film actors. The majority of actors one sees on the screen still regard the stage as their 'art' and look upon films merely as a most attractive source of income. This

fact has led to the location of studios within reach of London, namely, west and north, this being nearest to the theatres of the West End."

As film studios come within the category of industrial buildings, any application to erect or extend such a building will, under the new Act (as from July 1 next) have to be accompanied by a certificate from the Board of Trade that the proposal accords with national policy on the distribution of industry. In fact it is stated in Section 14 that such an application "shall be of no effect unless it is certified by the BOT that the development can be carried out consistently with the proper distribution of industry." This applies to any industrial building which will have a total floor space of more than 5,000 sq. ft. But regulations may be made by BOT that no such certificate shall be required with regard to the erection of a particular class of building in a particular area to be prescribed. It is not known as yet whether any type of building used for film work will be excepted in this manner from the necessity of obtaining a BOT certificate, but one can hazard a guess that it will not. The effect will then be that film studio buildings, together with most other types of industrial building, will need to be declared necessary to the national economy before even a planning application can be dealt with by the local planning authority.

With regard to that part of the film industry which has established itself at Elstree, the first major studios appear to have been erected about 1926, although I believe a small one was built in the very early days (about 1912). Previous to this films had been made mostly in areas closer to Central London. At about this period, in order to obtain more space and a clearer atmosphere, the film centre was formed at Elstree, this including the Whitehall, and British and Dominion Studios. The largest studios are the MGM Studios, followed by the Associated British Pictures Corporation Studios, and the British National Studios, and also one or two smaller ones used by the Gate Studio and GB Instructional. The largest studios, that is the MGM, have only recently been completed, and form a very large group of modern buildings.

The nature of the growth and kind of work carried out has resulted in a haphazard type of building, the earlier studios being of the aeroplane hangar type, and although the modern buildings are of more solid construction, all the studios are surrounded by a number of miscellaneous ancillary buildings. There has been no attempt at co-ordination, and the whole industry has just grown up piecemeal. Attached to the studios are areas of ground of varying extent upon which outside sets are established and for which the local authority grant temporary consent as required.

The general appearance of the buildings used for film making tends to be untidy, and it is difficult to see how this can be prevented as long as conditions are as they exist at present. It must be noted that, as with most of the newer industries, conditions are continuously altering, and techniques change very rapidly. The fact that the modern studios tend to be of more solid construction than the earlier ones enables a better appearance to be obtained from the elevational point of view: the actual film-making buildings have to be lofty and windowless. Proper attention to the siting and layout of these in relation to surrounding buildings is essential, and more attention should be paid to the design and siting of all subsidiary buildings such as offices, workshops, stores, canteens, etc. The newer studios have planned their offices on the road frontage of their plots. This is very desirable, although the great height of the stage buildings themselves tends to dwarf these in some cases. Tree planting would probably be helpful in certain cases.

With regard to present trends in the film

industry as a whole, it is very difficult to form any opinion as to how the industry will expand in the future. Taking the present economic situation of the country into account, however, the Government are encouraging the development of the British film industry, and it appears fairly certain that for a period of some years a degree of expansion will have to be allowed for. As has been stated, some of the studios are old but work is in hand or projected for considerable extensions. The war resulted in the loss of over half of the 1939 studio space in the country, and it is likely that a large part of these studios will never re-open. In addition many studios are out of date and too small for present-day requirements, as the continuing tendency is for more and more floor space to be required. Rebuilding and reconstruction has therefore been found to be essential even assuming no immediate expansion in production.

The most modern and conveniently sited studios from a general planning point of view should be allowed to expand, whilst the smaller studios whose sites are restricted and inconvenient from the point of view of the industry, and badly sited in relation to other development, should be gradually abandoned. Controlled expansion is essential, and any further land which it may be desired to use in the future should be very carefully considered.

Areas used for outside location work can in most cases be left in their natural state as farm land. Control must be exercised to limit the amount of land used (a) for studio and ancillary buildings, (b) outside sets, in order that the amenities of any open spaces and green belt areas in the vicinity are not affected more than is necessary. There would in many cases be sufficient land in the vicinity of the present studios to allow of considerable extension.

The actual amount of land which will be required is difficult to determine, and some estimate of floor space per studio, plus land required for workshops, scenery bays, and so on, is necessary. A study of conditions at Elstree, where of a total industrial area of approximately 250 acres, about 170 acres are used for films, indicates that the number of persons employed per acre is very low (about 7 persons). If the land used for outside locations is not taken into account, this rises to 25, but it is still low in comparison with the average industrial density (i.e., all industry, including films) in the area, which is just over 30 persons per acre. Of the 170 acres odd used by the film concerns, 47 acres approximately are occupied by the studios, and something over 120 acres for outside work.

With regard to the labour employed, a special feature is the fact mentioned above that it is still linked to a certain extent with the west-end theatre industry, and that a large number of the technicians prefer to live in areas fairly close to Central London. The number of persons employed is likely to continue to rise in the near future when extensions now in hand are completed. It must be assumed, I think, taking into account the peculiar structure of the industry, that a good number of employees will continue to travel daily. As the industry increases in size, the proportion of those persons who do this may tend to get smaller as more alternative sources of employment in this industry are provided. It is very difficult to estimate the number exactly since the numbers employed, such as crowd actors and extras, vary considerably according to the type of production in hand.

To conclude, another factor which must be considered is the importance of not allowing factories employing machinery which may interfere with the recording apparatus to be established in the neighbourhood of film studios. This causes great difficulties in some cases. The proximity of aerodromes and low-flying aircraft is liable to be an additional source of trouble.

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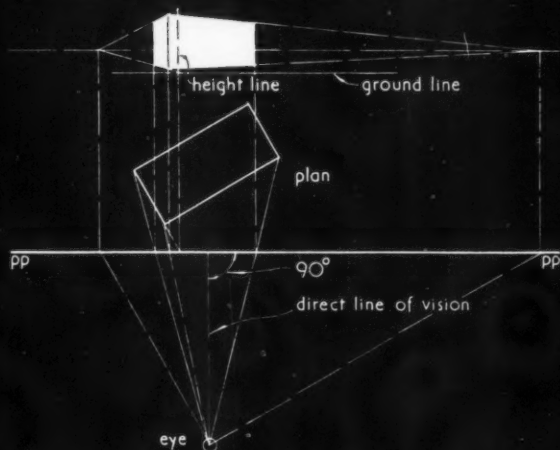
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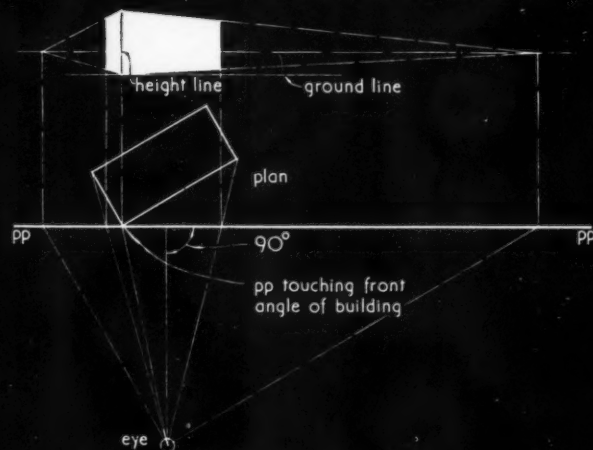
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I.B28



PICTURE PLANE IN FRONT OF PLAN.

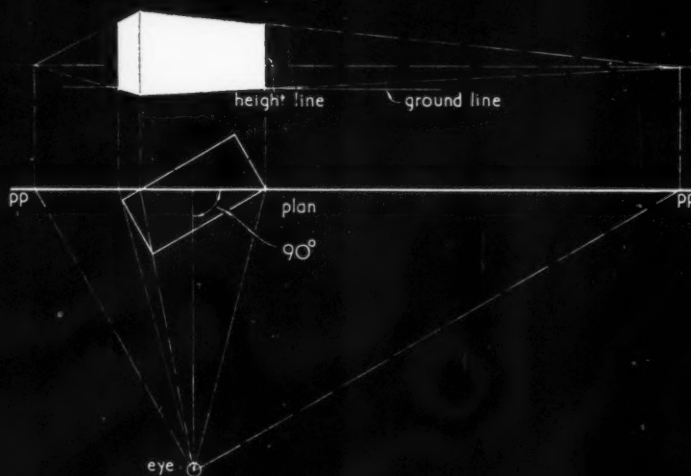


PICTURE PLANE ON FRONT ANGLE OF PLAN.

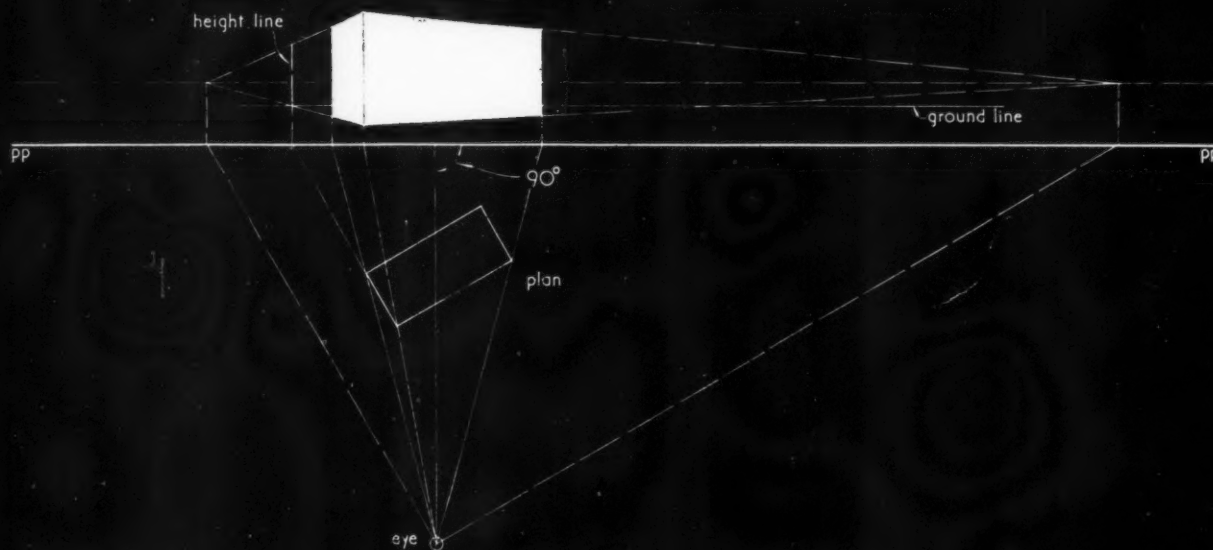


SIDE AND FRONT ELEVATIONS.

all diagrams are to the same scale to enable comparisons to be made.



PICTURE PLANE THROUGH PLAN.



PICTURE PLANE BEHIND PLAN.

SELECTION OF POSITION OF PICTURE PLANE IN RELATION TO PLAN SHOWING VARIATION IN SIZE OF PERSPECTIVE VIEW OBTAINED. METHOD OF OBTAINING HEIGHT LINE.

Compiled by Leslie A. Lee, F.I.O.B., and H.N. Hopkins, A.R.I.B.A. for Eagle Pencil Company — Chemi-Sealed Turquoise pencils.

1.B28 SELECTION OF POSITION OF PICTURE PLANE IN RELATION TO PLAN. METHOD OF OBTAINING HEIGHT LINE

This Sheet, one of the series on draughtsmanship, deals with the theory of perspective and describes the selection of picture plane in relation to plan. The variation of the position of the picture plane should have no effect on the perspective view except to enlarge or decrease the size of the perspective drawing. In all examples the eye position in relation to the plan is constant and only the picture plane and size of resultant view vary.

Position of Picture Plane in Relation to Plan

In the first example the picture plane is placed between the building and the eye position. It will be seen that the perspective view obtained is reasonably small and that if the picture plane is taken nearer to the eye position the view becomes correspondingly smaller.

Having selected the position of the eye on plan (see Sheet 1.B27), and drawn the lines to the extreme points of the plan, giving the angle of vision, draw the line bisecting this angle, thus obtaining the direct line of vision.

The picture plane must be placed as a normal to this line otherwise a distorted view will be obtained.

In the other three examples the picture plane is taken on the front angle of the building, through the building and behind the building. In each case it moves further away from the eye position, which results in a corresponding increase in size of the perspective view.

Height Line

The method of obtaining height lines is also shown on these drawings. True heights to scale can be

measured only on the picture plane. Therefore, in the first example one side of the plan is produced forward to meet the picture plane, and is then projected up on to the perspective view. The height of the eye above ground level is selected to give the desired view (see Sheet 1.B29)—all views show the eye at normal height, 5 ft. 6 in. above the ground level. The heights of the building are set up to scale on the height line from ground level and by joining to the left-hand vanishing point will give the heights for that side of the building. In the second and third examples the picture plane passes through an angle of the building, and these angles in the perspective drawing are therefore used as height lines. This arrangement much simplifies the projection and reduces the number of lines that have to be drawn.

In the last example, with the picture plane behind the building, one side of the plan is produced back to the picture plane and is projected up to the perspective view as in the first example.

This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

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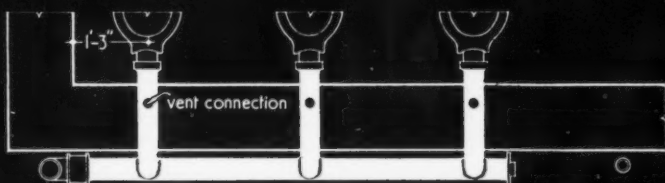
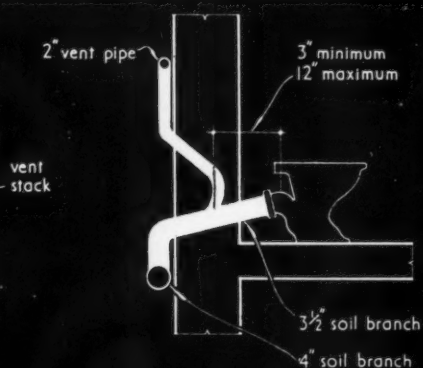
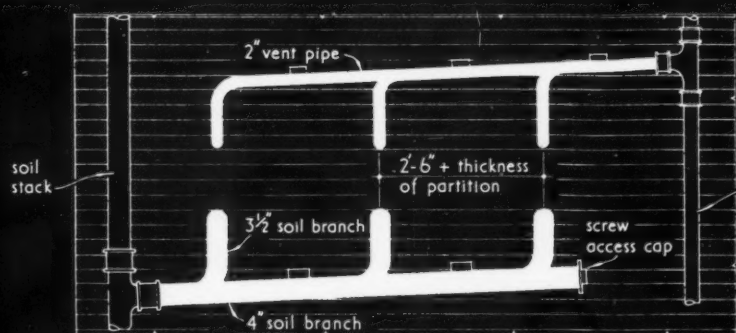
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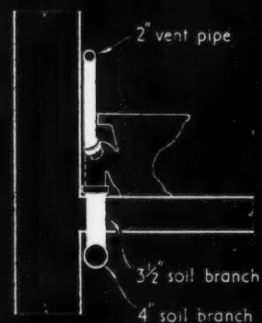
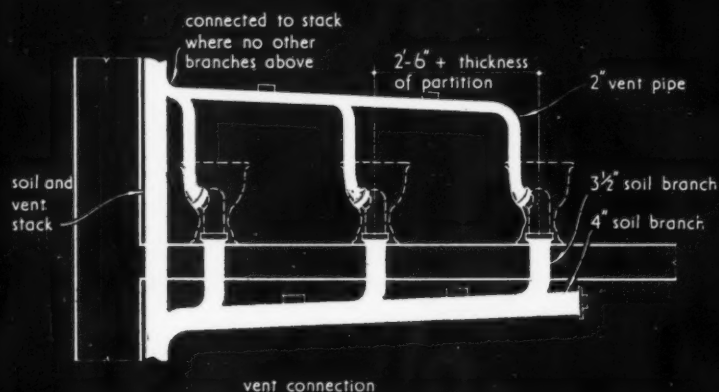
WATER SUPPLY AND SANITATION | DETAILS | LEAD

33.C2

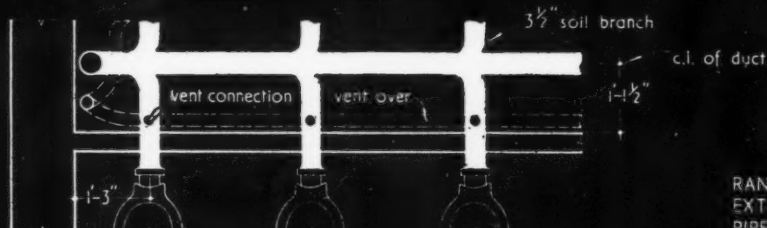
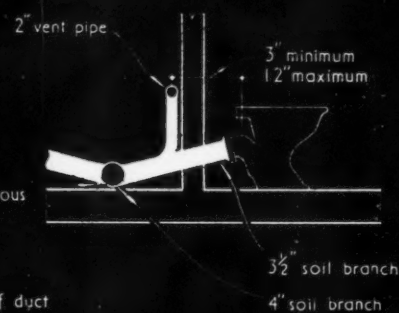
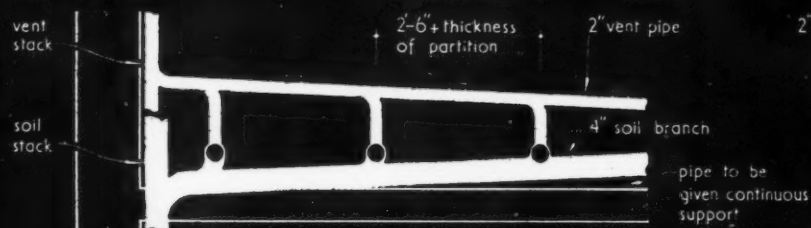
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RANGE OF W.C'S ALONG EXTERNAL WALL - EXTERNAL PIPEWORK.



RANGE OF W.C'S ALONG EXTERNAL WALL - INTERNAL PIPEWORK.



RANGE OF W.C'S AT RIGHT ANGLES TO EXTERNAL WALL - INTERNAL PIPEWORK IN DUCT.

33.C2 LEAD PLUMBING TO RANGES OF W.C.'S

This Sheet sets out the general principles of lead plumbing to ranges of w.c.'s. Typical ceramic w.c.'s have been shown but minor variations may be made to the plumbing for other types of w.c.

Design Notes

The following notes include recommendations based on the appropriate British Standards Specifications, the Institute of Plumbers Minimum Specification, Model Bye-laws, etc.

Compartments: w.c. compartments are generally 2 ft. 6 in. wide.

Outlets: These are commonly $3\frac{1}{2}$ in. internal diameter.

Traps: These are either the P or S type and integral with the appliance. (See B.S. 1213 : 1945.)

Branch soil pipes: The internal diameter of the branch soil pipe connecting the appliance to the soil stack should not be less than the internal diameter of the outlet to the pan, i.e., commonly $3\frac{1}{2}$ in. internal diameter. Branch connections should be given a slight bend in the direction of the flow. Branches serving a number of appliances should be 4 in. internal diameter; soil stacks are usually 4 in. internal diameter. (There is no accepted guide except the requirements of Local Authorities.)

Soil stacks: These should be carried above the highest branch (to act as a ventilation pipe) to a minimum of 2 ft. above the level of the top of any window within a distance of 15 ft. from the open end of the pipe.

Vent or anti-syphon pipe: When two or more appliances are connected to the same pipe the trap of each appliance must be ventilated. The vent or anti-syphon pipe (minimum internal diameter 2 in.) should be connected to the trap or soil pipe branch at a point 3 in. minimum and 12 in. maximum from the crown of the trap. The vent pipe should terminate in the open air similarly to the soil stack or be connected to the soil stack 3 ft. above the highest branch.

Falls and rises: Falls in soil pipe branches and rises in vent pipe branches should be $\frac{1}{4}$ in. in 1 ft. minimum.

Access: All pipework should be readily accessible.

Range of W.C.'s along External Wall—External Pipework

This shows a commonly used arrangement where all pipework is external. P trap w.c.'s allow the most straightforward work since the pipework need pass through the wall only, and not the floor. Lead

branches should be used between the appliances and the stacks as the flexibility of the material prevents strain on the appliance during and after fitting.

Range of W.C.'s along External Wall—Internal Pipework

The arrangement shown is often used where ranges of w.c.'s are one above the other on successive floors, for example in office buildings. S trap appliances with an integral vent outlet are used with the main soil branch immediately below the floor. The vent pipes are connected direct to the vent outlet of the appliance. The lead soil and vent stacks are together with all other pipework kept internal.

Range of W.C.'s at Right Angles to External Wall—Internal Pipework in Duct

This is an arrangement which may be specially suitable for schools and buildings where two ranges of w.c.'s can be sited back to back. The duct can accommodate all pipework—disposal plumbing, cold water distribution pipes and flushing cisterns. Access to the duct must, of course, be provided. As with the first arrangement P trap w.c.'s permit the most straightforward work.

Sizes and Weights of Pipes

The weights of lead pipe should be as given in B.S. 602 : 1939—Ordinary Lead Pipe, i.e., soil branches and stacks—3 in. by 17.1 lb. per yd., $3\frac{1}{2}$ in. by 20 lb. per yd., 4 in. by 22.8 lb. per yd. Vent pipes—2 in. by 12 lb. per yd.

Further Information

The Lead Industries Development Council maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

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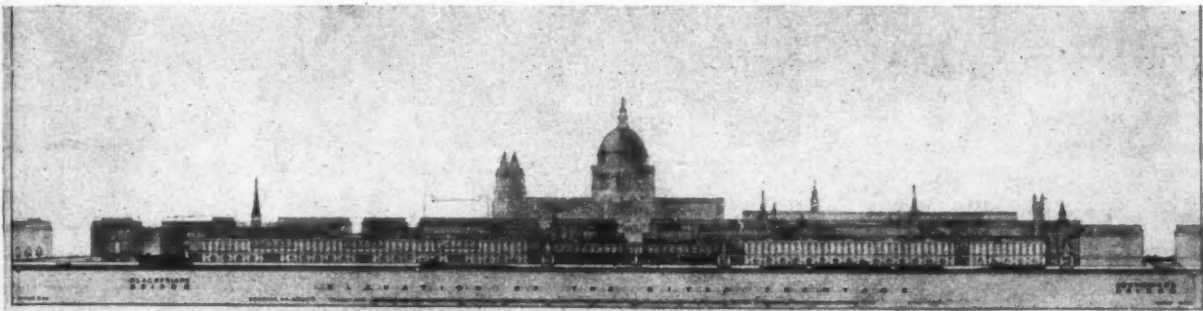
The Lead Industries Development Council.

Address : Eagle House, Jermyn Street, London, S.W.1.
Telephone : Whitehall 7264.

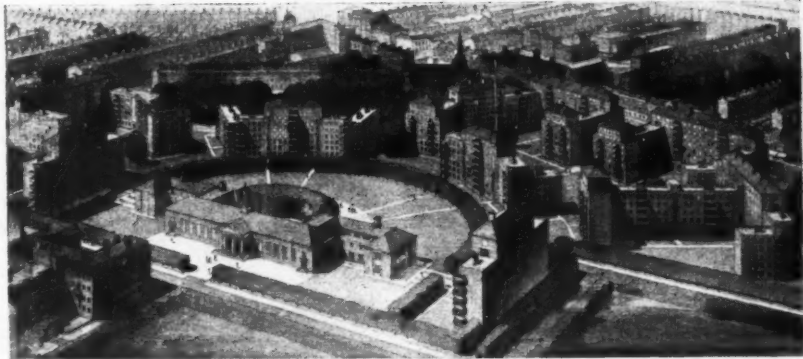
ROYAL ACADEMY EXHIBITION

One room only is devoted to Architectural Drawings and Models at the RA Exhibition which opened at Burlington House last Saturday. In this room are sixty-four drawings and five models. Among the projects shown—some of which are illustrated on the following pages—are war memorials for Uppingham School and Cheltenham College; Plymouth and Portsmouth Naval War Memorials; reconstruction in the City of London, Plymouth and Hemel Hempstead; the new Shire Hall, Bedford; public build-

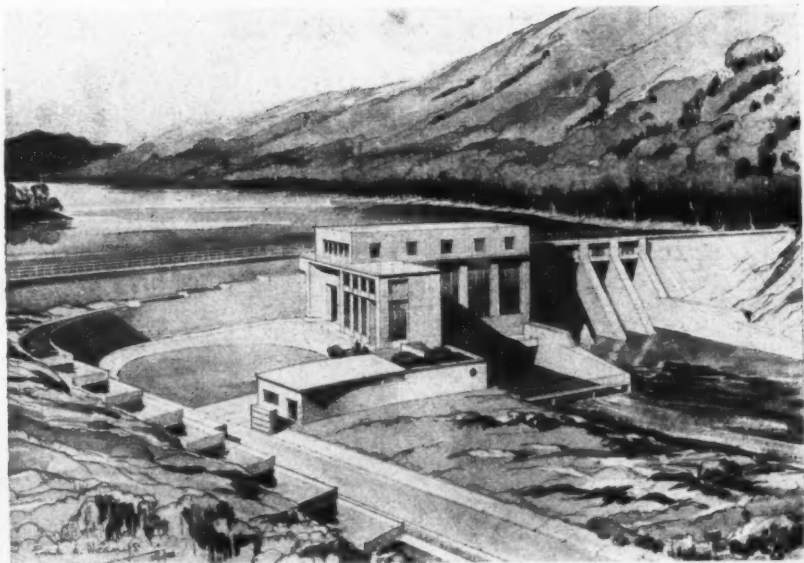
ings at York Castle and for the Hampshire County Council; power stations at Ross and Cromarty, Little Barford and Carmarthen Bay; college for women at Durham University; Exchange Telegraph new headquarters in London; medical students' hostel at Barts; telephone exchange at Oxford, and the rebuilding of the Inner Temple, a photograph of the model for which appears on page 408. A leading article on the RA Architecture Room is on page 409. The exhibition closes on Aug. 8.



1161 *Reconstruction in the City of London: elevation of the river frontage.* By Charles Holden and W. Holford. Drawn by Cyril Ludford.



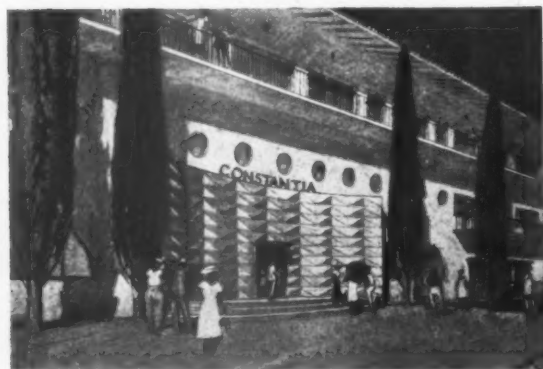
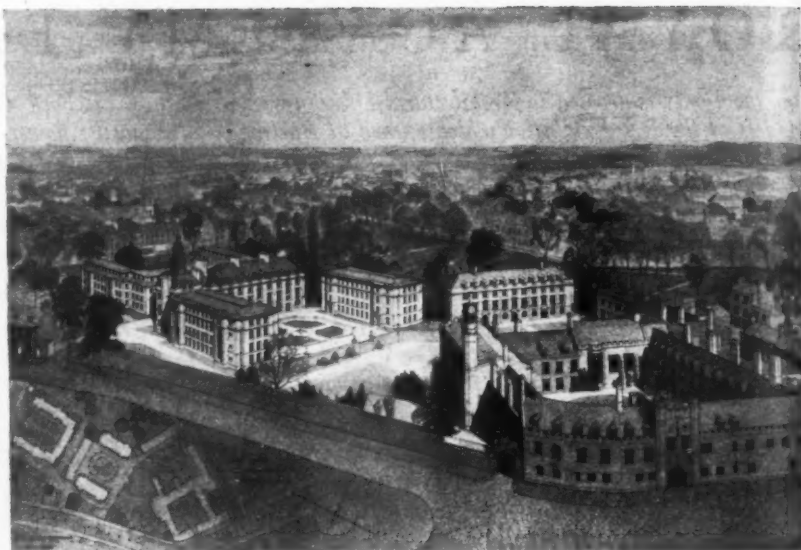
1209 *Development of Oakley Square area, St. Pancras.* By Ian Hamilton and Alan Chalmers. Drawn by F. E. Green.



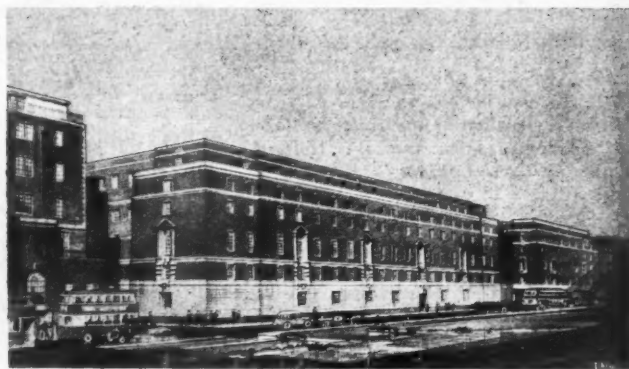
1186 *Proposed dam and generating station at Torr Achilty, Ross and Cromarty.* By Sir Alexander Gibb and Partners (Chief Architect, T. H. Eley). Drawn by Frank A. Weemys.

ROYAL ACADEMY EXHIBITION

1154 *Proposed extensions to Christ's College, Cambridge. By A. E. Richardson, R.A., and E. A. S. Haufe. Drawn by J. R. Stammers.*



1171 *Entrance to Hotel, Cyprus. By Oliver Hill. Drawn by J. D. M. Harvey.*

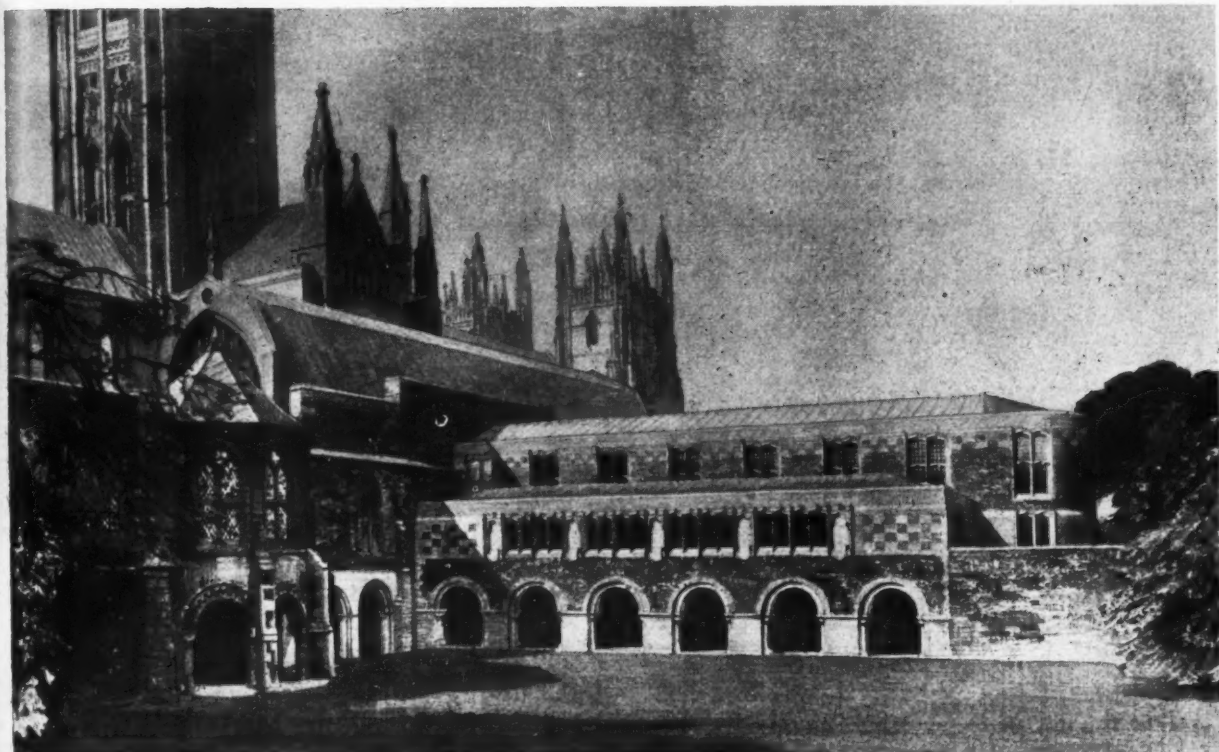


1177 *Proposed extension, Faraday Buildings, E.C.A. Elevation to Carter Lane. By Eric Bedford.*



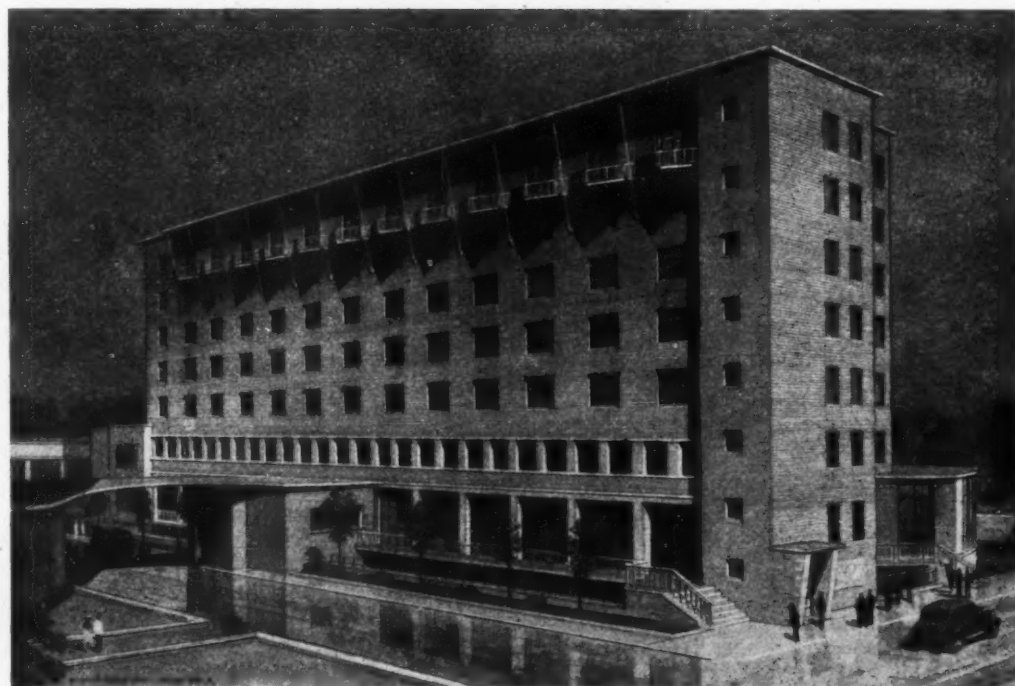
1181 *City of Plymouth, Union Street Development. By Louis de Soissons, A.R.A. Drawn by Frank A. Weemys.*

1163
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1163 *Proposed New Library. Christchurch Cathedral, Canterbury. By John L. Denman. Drawn by Charles Knight.*

1215 *Students' Hostel, the Medical College of St. Bartholomew's Hospital. By Easton and Robertson. Drawn by Norman Howard.*

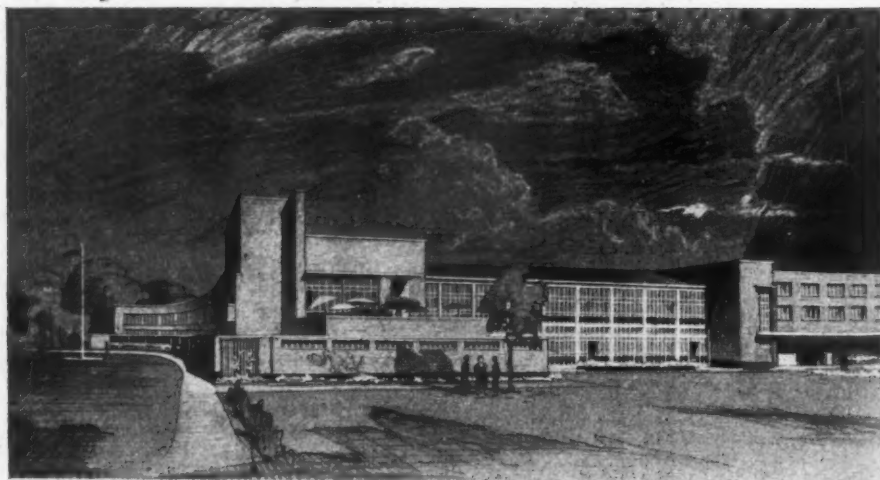




1179 Flats in Wandsworth Road, S.W.8, for the Lambeth Borough Council. By Howes and Jackman. Drawn by Cyril A. Farey.

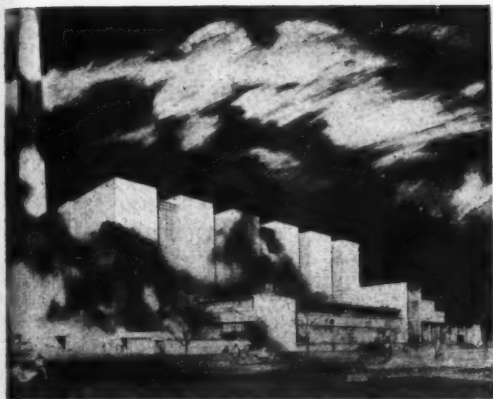


1185 Secondary Modern Mixed School at Arnold, Nottingham. By Evan W. Roberts. Drawn by E. J. Thring.

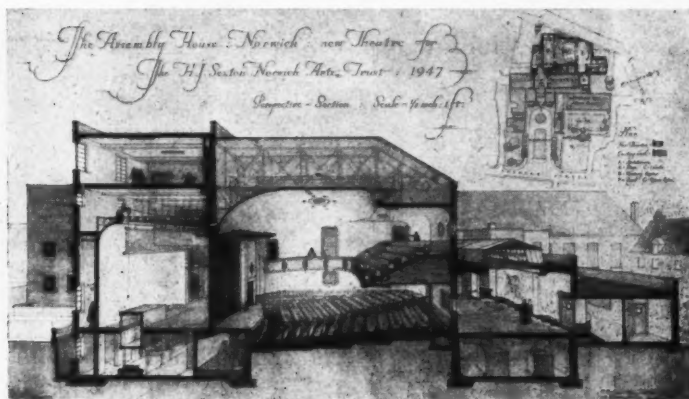


1188 New NAAFI Club and Seamen's Hostel, Chatham. By Ernest M. Joseph. Drawn by E. Douglas Lyons.

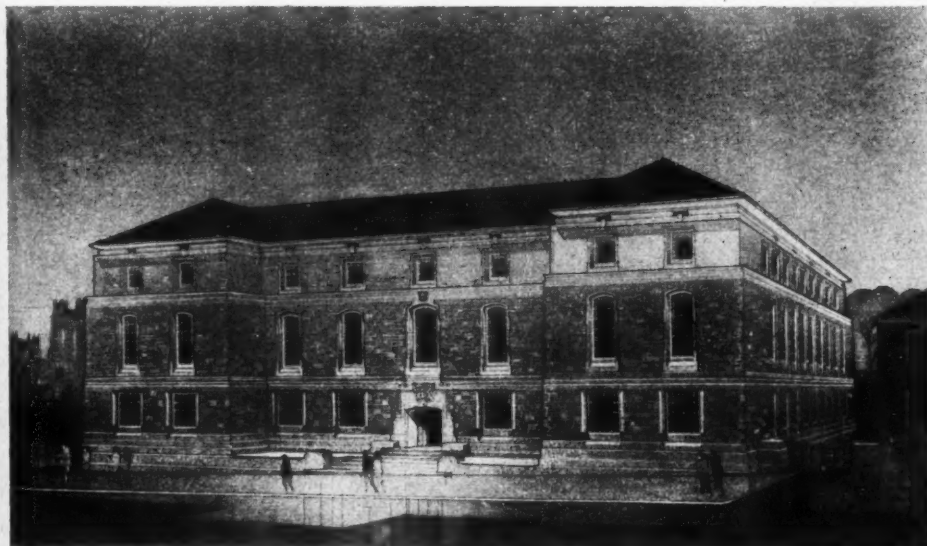
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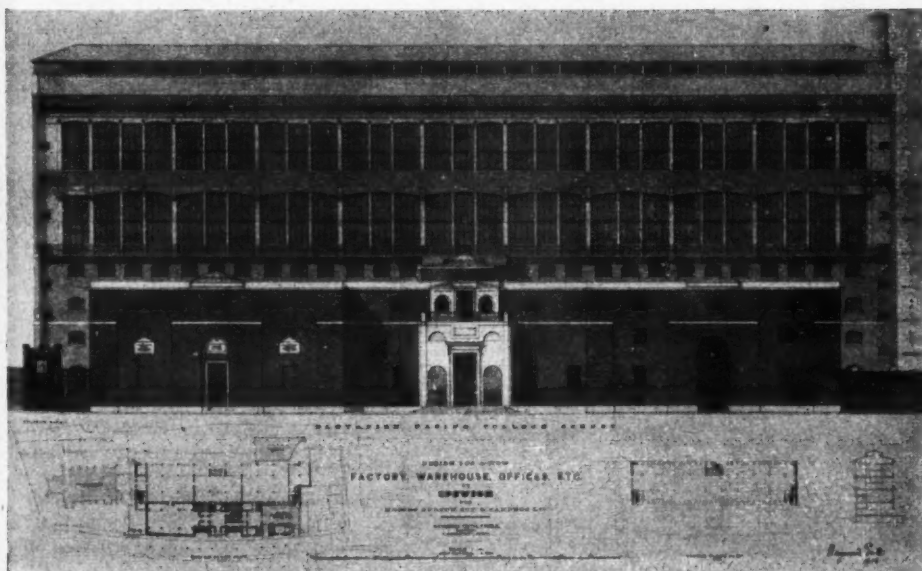
1190 Carmarthen Bay Power Station. By Sir Percy Thomas. Drawn by R. F. Buckley.



1192 The Assembly House, Norwich: New Theatre for the H. J. Sexton Norwich Arts Trust. By S. Rowland Pierce.



1207 Proposed Telephone Exchange, Oxford. By F. M. Dean.



1210 Design for a factory, warehouse, offices, etc., at Ipswich. By Raymond Erith.

ROYAL
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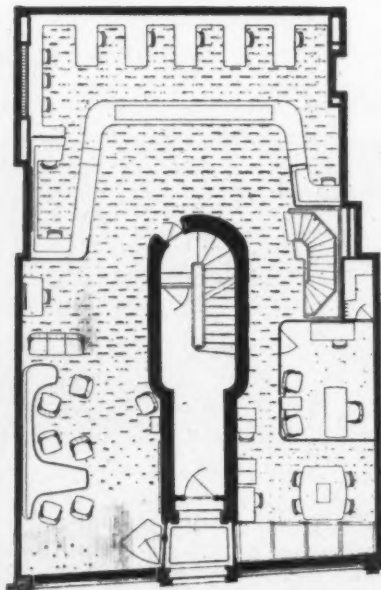
The information desk from the entrance.

TRAVEL BUREAU IN PICCADILLY

DESIGNED BY KAY KÖRBING; CONSULTANT W. H. SCANLAN



The basement staircase.

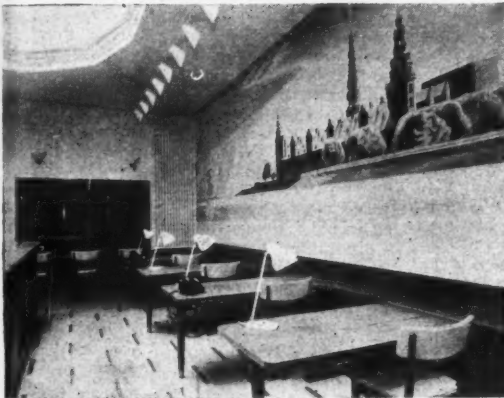


GROUND FLOOR PLAN

The Danish Travel Bureau at 71/72, Piccadilly, is the central booking office for the Harwich/Esbjerg Service and also for general information on travel in Denmark. The entrance is on the left of the lobby into the waiting area and beyond this are the enquiry and booking counters. To the right of the lobby is the telephone booking office, the telephone switchboard, the manager's office and the stairs to a basement exhibition room. All furniture, designed by the architect in collaboration with Messrs. O. Molgaard Nielsen and Peter Hvidt, and equipment is in Bangkok teak and stainless steel. All the materials, with the exception of those for the entrance lobby, the windows and the floor covering, have been sent specially from Denmark. The installation was carried out by Messrs. E. Pollard & Co.



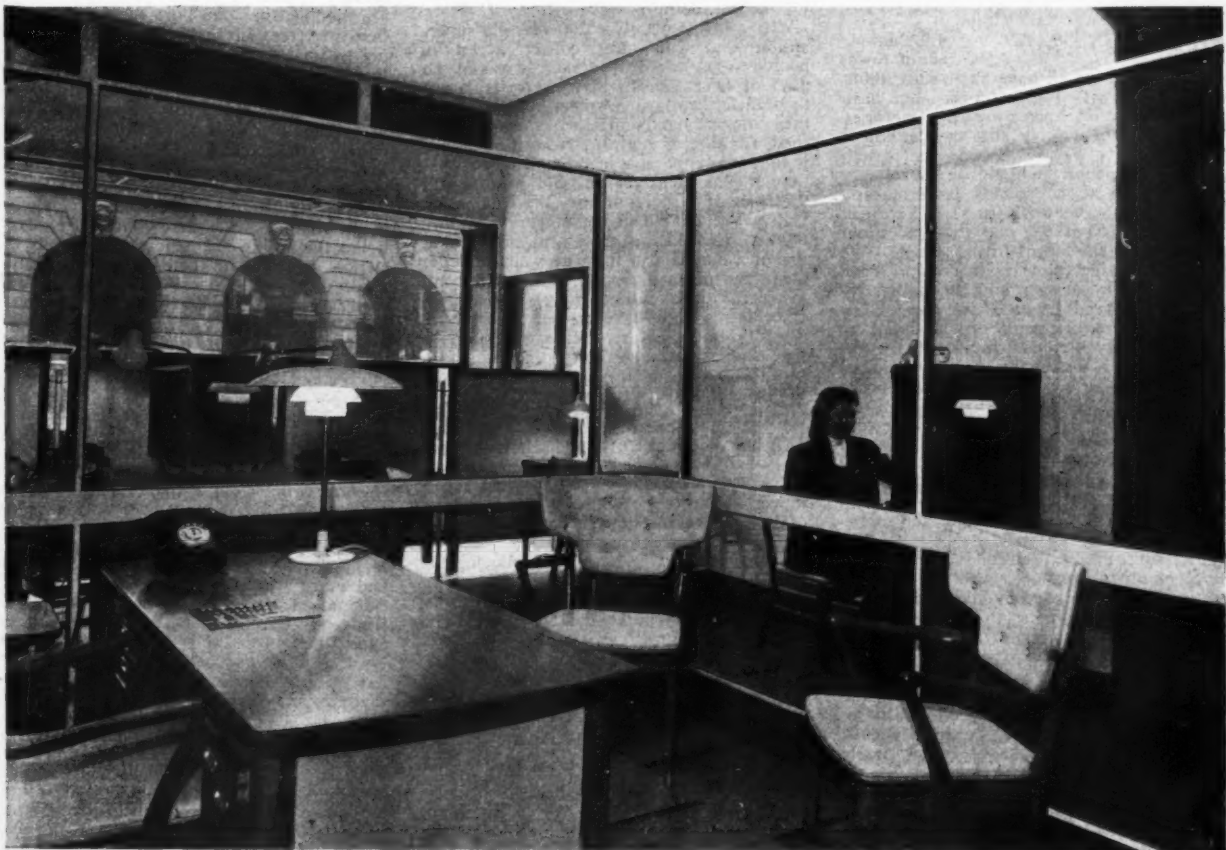
The ticket counter.

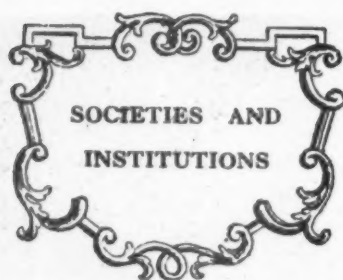


The staff accommodation.



Above, the stairs to exhibition space in the basement; below, the manager's office.





Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

TPCA

Robert Sinclair

April 14. At the Planning Centre, 28, King Street, Covent Garden, W.C.2. LONDON AND THE FUTURE. Mr. D. Donnelly was in the chair.

Robert Sinclair: In thinking about towns of the future, we all have some idea about what to do with the factories. But have we? Supposing there are no factories. How certain can we be that the pattern of the moment in Western Europe, the pattern of a lot of people jumping on bicycles or buses when a hooter sounds, is permanent, or may last another 50 years? Yet such assumptions dominate our thought about planning and the life of British people. We shall risk having too narrow a vision if we insist that the world round the corner tomorrow must be like the world we know to-day. There are signs of the break-up of vast factory clumps. Industries are trying to reduce their units to an optimum size. The factory is merely the descendant of groups of cottage workers, drawn together for ease of control. Will history reverse that tendency, now that ease of control is gained at too high a social cost? The factory seems a fundamental of our life. So did the cesspool of our grandfathers' life. So did the moat and drawbridge to an earlier world.

After all, urban life consists mostly of large numbers of people who are required to sleep in a designated huddle so that when an alarm clock rings they can quickly assemble to do something, nearly always to some object. How do we know the way won't be found to have the objects to wait on the people, instead of the people on the objects? That might do something to reduce transport, which is the biggest cost, the biggest universal tax, the biggest waste of precious life that we know.

Half the factories in London are places where people handle paper, whether with pens or typewriters or calculating machines or punches. A big office will employ

several hundred people doing direct clerical and managerial work, apart from people who wait on them, like cleaners, and boiler and canteen staff, and telephone engineers. The fewer the clerks, the fewer the technicians. Supposing an office has 600 clerks, and 20 of them live round Harpenden. Can you not imagine a day when those 20, instead of travelling to the City, will go to a small building in Harpenden itself, and do their usual day's work there, having access by telephone and teleprinter and phototelegraphy to the books and documents and colleagues at head office? If they save 3 hours a day in travel, there are 60 man-hours a week saved per clerk, or 300 hours for the group. As more than half the total clerical staff at head office may well live in the outer suburbs or beyond the Green Belt, the City staff might be cut down to a fraction of its former figure.

THE COMMERCIAL SUPERSTITION

A big commercial city like London is apt to grow for years without changing the methods with which it happens to have started. An organizer who was starting from scratch to run a big City office and who had all his records in a central building and 600 clerks in their suburban homes would hardly in sanity decide that the best way to get the work done was for his clerks to make 6,000 journeys a week. What is spared all the trouble of daily displacement? The piece of paper. Who has to run backwards and forwards? The man who might be supposed to be the master of the piece of paper. Could not the great organizer move the lesser to the greater, the simpler to the more complex? I don't suppose any clerk in the course of a day handles more than his own weight or bulk in paper. All the paper handled by the occupants of a crowded suburban train in the course of a day in the City could be packed in something smaller than that train. If the paper travelled and not the clerks, there would be no need for porters to shout "Mind the doors."

After all, it is merely a 200-year-old superstition that you must collect a lot of people to get any work done. It was in the days of Dick Turpin that overseers began to transfer cottage workers, carrying out their home handicrafts, to large central sheds for ease of control. Nowadays labour is far more expensive in relation to material than it was then, yet this old idea is still the basis of business in the City of London and in Whitehall and the bigger West End offices. It strikes me as a little roundabout that if a magnate in the City wants a letter filed, the planned device of modern commerce for that occasion is that someone in Uxbridge should have to set their alarm clock the night before, then should have to rise, shave, bath, swallow some breakfast, kiss the baby, and travel 15 miles in order to lift that letter into a folder.

AD HOC IMPROVISATION

All the administrative and clerical work done in London offices has arisen from an *ad hoc* improvisation. If a typist is no longer able to cope with a growing volume of letters, one instinctively engages another typist, even if she lives at Slough. Is there no other course? What about reducing the burden of letters, by eliminating some, making the rest shorter, using printed forms, using the telephone or the telegram? The extra daily journey from Slough is not, after all, the inevitable product of the greatness of London, or the urgencies of business, or the lamentable lack of housing, or the appalling transport facilities. It is often the result of unenterprising thought.

THE TRAVEL FALLACY

In view of the mood of helpless resignation shown towards the lack of building prospects in the Home Counties, can we not conquer some of our difficulties by using

our brains? We shan't do that by assuming that everything that happens in London is an inevitable and useful thing, and must simply be lifted bodily to a new town or left bodily behind. If we look at most processes in London with fresh vision we shall find that they are not natural, normal and inevitable activities which Londoners desire, but are mostly devices rigged up to cope with the difficulties of an earlier day, as and when those difficulties arose. Why enshrine those difficulties as sacred by considering the device to be permanent? Why should there be a railway at all between London and Harrow? It's not because people want to go from one place to the other. Stand on Harrow platform on Sunday morning and you will learn the truth. Nobody in Harrow really wants to go to London. They go because they are compelled to go. Think of the delight of the stationmaster at Harrow on Monday morning, when thousands of his fellow-creatures pour through the station. He must feel a real benefactor of the human race. "Look," he might say, "they all want to go to London." Never could greater fallacy be uttered. And when bigger and better trains and bigger and better signal-boxes are called for to help this splendid race of travellers, let us stop and ask whether bigger and better brains should not be called for to think of a way of freeing the travellers from the cruel compulsion to travel.

I would favour setting up a London Travel Corporation formed on the well-known basis of Chinese medicine. The fewer the travellers, the more the Corporation would be paid. Then we should soon see hundreds of New Towns.

DECENTRALIZATION OF OFFICE ORGANIZATIONS

Clerical work is one of the weakest of reasons for moving large masses of workers. Our manufacturing industries, which are a century ahead of our commercial offices, are finding the transport of goods easier than the transport of people and are turning to smaller working units. I should like to see some very big office organization take up the challenge implied in the crowding of London, and reorganizing all its ways of thought in order to spread its work in units in various parts of the Outer Ring. This should be functionally thought out, and not done in the crude way in which firms sent entire departments into the depths of the country in the sacred name of evacuation. Supposing the tens of thousands of clerical workers in the Watford area did three days' work a week in well-organized duplicate offices in the Watford area, and only two days in central London? Would not the congestion in London in the matter of transport and catering be eased?

Competitions

Royal National Eisteddfod of Wales Architectural Competitions, 1948. Competition 192 for a county college. Competition 193 for a neighbourhood unit layout. Assessors: C. F. Bates and T. Alwyn Lloyd. Premiums: £50 in each case. Conditions and entry forms from Rev. W. J. Samuel, General Secretary, 38, Dunraven Place, Bridgend. Entries to be submitted between June 5 and 14. JUNE 5-14

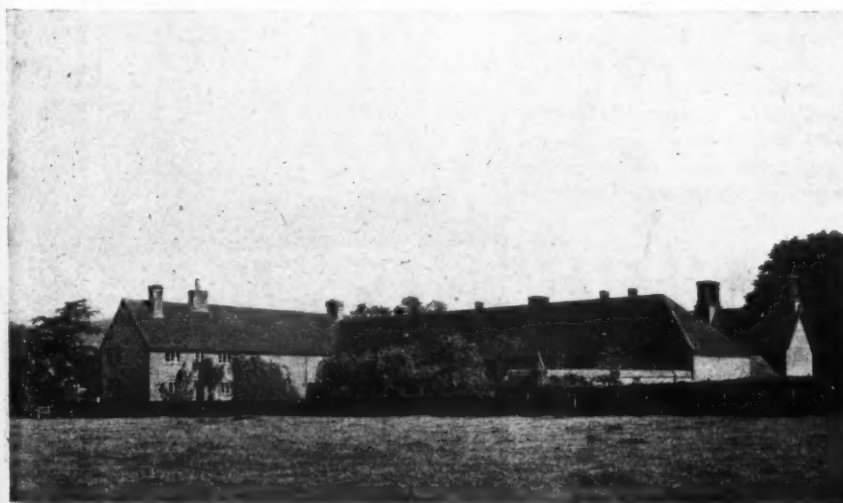
Art Competition and Exhibition of the XIV Olympiad, London, 1948. Designs eligible: (a) Town planning, (b) Architectural designs. Entries will be limited to designs for sports grounds and to buildings intended for use in connection with sport only, and must be received between May 1 and June 11, 1948. Full particulars from the Organising Committee for the XIV Olympiad, London, 1948, 105, Victoria Street, London, S.W.1.



Above, the flats from the south. Below, before conversion.

CONVERSION OF MALTHOUSES AT MILL END, BUCKS

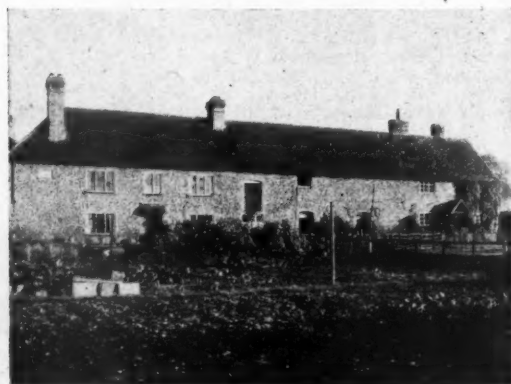
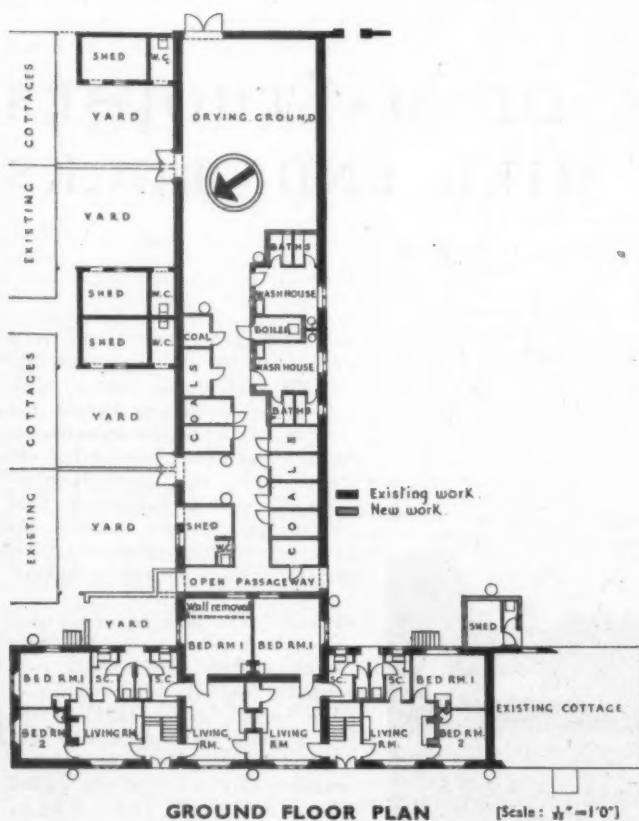
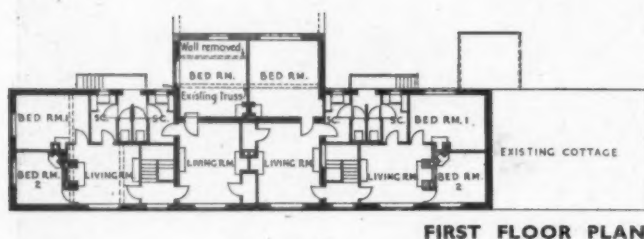
DESIGNED BY ALLEN FOXLEY



GENERAL.—The scheme is a conversion of existing maltheuses at Mill End, Bucks, built in 1785, which had been long disused and empty. This provides accommodation for pensioners and other old workpeople on Lord Hambleton's Greenlands Estate, who were occupying cottages suitable for younger married couples and too large for their present occupants.

PLAN.—The plan is largely dictated by existing walls. The first section, carried out in 1934, consisted of four flats at the north end. The second section (1945-6) was on a more elaborate scale; the upper storey of the long block running east and west was pulled down, incidentally giving light to

CONVERSION OF MALTHOUSES BY ALLEN FOXLEY

*The north-west elevation after conversion.**The north-west elevation before conversion.*

four cottages already existing. Within the outer walls, left to a height of some 10 ft., were built two wash-houses and four bath-rooms, with boiler-house; and a shed 9 ft. by 5 ft. was provided for use in connection with each flat. Each flat has a living-room, a scullery with sink and a ventilated food cupboard, and a w.c. under cover outside the back door.

CONSTRUCTION.—The original building was solidly constructed with walls of brick and flint; the wood floors and roof of massive scantling, covered with plain tiles. New walls are of brick; the wash-houses and sheds are roofed with corrugated asbestos sheeting on wood bearers. Floors in flats mainly boarded. Internal stairs in concrete; external stairs in oak.

ELEVATIONAL TREATMENT.—Existing elevations interfered with as little as possible. New windows are standard steel casements in wood frames. Frames painted cream; steel casements dark lead colour.

INTERNAL FINISH.—Floors boarded; ceilings plasterboard; walls plastered and distempered.

SERVICES.—Living-rooms are fitted with ranges; bedrooms have coal fires and points are fitted for electric heating in living-rooms and bedrooms. Electric light is provided throughout with electric power points in wash-houses. Drainage is carried to septic tanks.

CONTRACTS.—1st section (1934), £723. 2nd section (1945-6), £2,854 2s. Single contract. The general contractors were R. Harding (Cookham) Ltd.

For sub-contractors see page 426.

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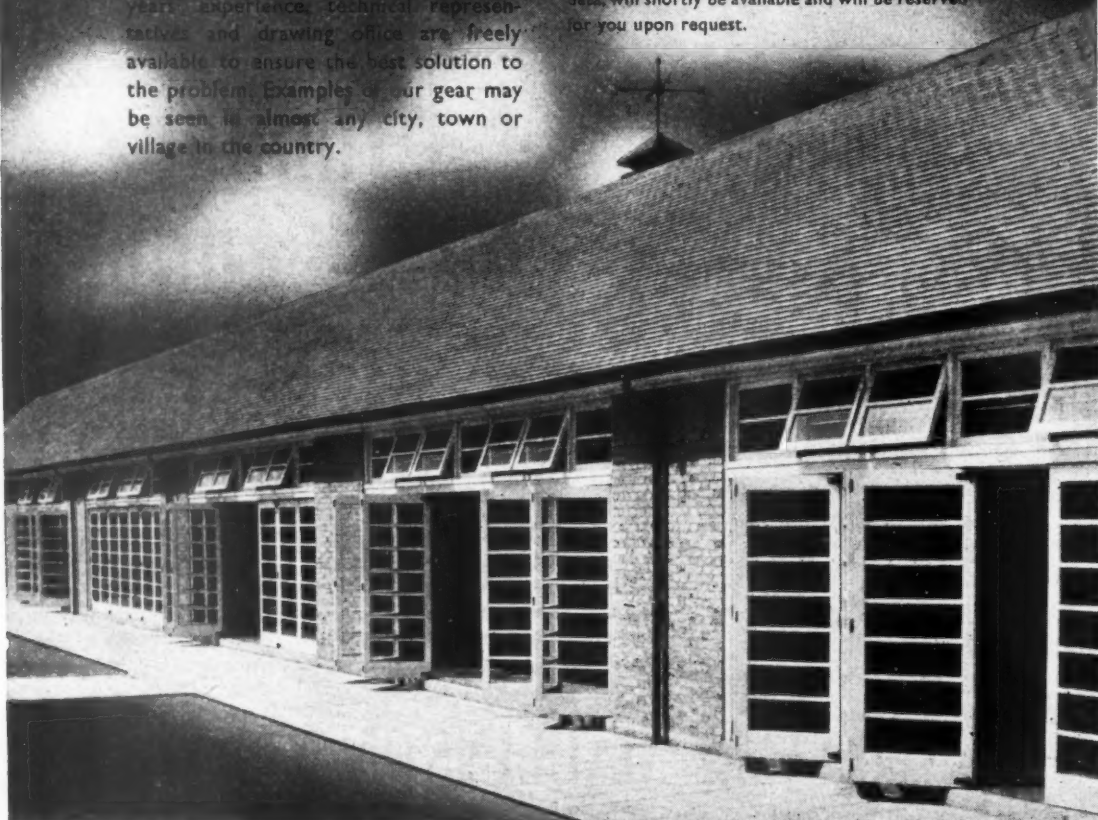
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INFORMATION CENTRE • INFORMATION SHEETS
QUESTIONS AND ANSWERS • CURRENT TECHNIQUE
THE INDUSTRY • PRICES • TECHNICAL ARTICLES

TECHNICAL SECTION

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

INFORMATION CENTRE

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND, INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

2.33 planning: general

PLANNING SURVEYS

Planner's Digest. E. G. Schoendorff. (APRR Information Bulletin, Mar., 1948, Ref. Sheet No. 7, pp. 1-3.)

Selected abstracts of planning literature published in England during 1946 and 1947.

Aspects covered deal with survey technique in general including aerial survey, household classification and land classification, and with land use and social surveys for particular regions and towns.

4.34 planning: urban and rural

PLANNING BIBLIOGRAPHY

Planner's Bibliography. E. G. Schoendorff. (APRR Information Bulletin, Apr., 1948, Ref. Sheet No. 8, pp. 1-4.)

Comprehensive bibliography in two parts listing selected references to factual town and regional plans and to new towns planning, covering material published in England in 1946, 1947 and 1948 to date. References to new towns include complete list of Government publications.

13.20 materials: timber

FLOOR FINISHES

Flooring Hardwoods. Forest Products Research Bulletin No. 21. (HMSO. 1948. 1s.)

Report on investigations into behaviour of hardwood floors under heavy industrial loads. 12 pages and photographs.

This report is valuable in that the investigation described has resulted in an explanation of the phenomena of surface wear and breakdown, and shows how to judge the probable quality of the new timbers now being brought in to replace others no longer available. The effect of impregnation of timber

by a solution of resin in paraffin wax is described.

Unfortunately for architects, the results are not put forward in terms of the probable value of various types of flooring.

15.20 materials: applied finishes, treatments

FLOOR FINISHES

Floor Finishes. A Guide to their Selection. Penelope Whiting. (E. & F. N. Spon. 1948. 7s. 6d.)

Requirements considered under headings of appearance, cleanliness, wear, warmth, quietness. Effects of damp, oils, acids and heat. Cost. All usual floor finishes discussed in relation to each requirement. 62 pages and some general illustrations.

This is quite a useful little book, although in a number of instances the information is of a rather elementary nature. The general arrangement of division into chapters, each of which deals with one of the main requirements of floor finishes, is only partially successful, as it results in the information about any particular type of flooring becoming very scattered. There are a considerable number of rather vague statements; e.g., it is not of much help to say that care must be taken to prevent water from penetrating the joints in linoleum floors unless some method of doing so can be suggested. To say that clay tiles are made in squares of from 1 to 6 inches is misleading, as larger tiles are also available (as mentioned in another part of the book).

While some of the points in the chapter on appearance are helpful, certain elementary things such as the running of boarded floors at right angles to the main lighting are not mentioned. In the chapter on cleanliness there is no early reference to the all-important effect of dust reduction obtainable by waxing. The notes on granolithic flooring do not pay enough attention to the quality of the mix and the dangers of over-trowelling.

In the section on warmth an undue emphasis is given to the value of insulation, because there is no clear distinction between the requirements for solid and hollow ground floors and the much less important cases of upper floors. Under quietness it is stated that the floor finish itself can have but little effect upon the degree of sound insulation attained, but there are in fact several important exceptions to this.

In spite of these and a good many other similar points of detail, the book provides a useful collection of information for occasional reference and a valuable quickly-read outline of the subject for students. Sixteen illustrations at the end of the book, although not of very great value in helping to choose a type of floor finish, have the merit that they are mostly new, and all show interesting examples of modern buildings, though one is tempted to wonder why it was necessary for fourteen to be from abroad.

17.29 construction: general

BUILDING CONSTRUCTION

Building Construction (Book I). J. P. C. Bowden and E. G. Bartle. (Sir Isaac Pitman and Sons, Ltd. 1948. 6s.)

Elementary book on technology of building construction for second-year students in

secondary technical schools. Clearly written and well illustrated.

20.70 construction: complete structures

FRAMES IN PRECAST CONCRETE

Framed Structures in Pre-cast Concrete. (Arch. Design, Mar., 1948, pp. 62-64.)

Applications of the Lambda system, already referred to in No. 2575: 6.6.46 and 20.48. Outstanding French example.

24.73 lighting

ULTRA VIOLET IRRADIATION

Air Borne Infection and Air Sanitation. (Hanovia Ltd., Slough.)

Some discussion of history of research into history of UV. radiation for reducing risk of infection. Method of assessing destroying power. Some field research results referred to. Methods of application for schools, hospitals, etc., by indirect or upper air irradiation, direct irradiation for special cases only, "barrier" irradiation as at doorways, duct irradiation. Good bibliography.

This brochure is intended primarily for physicians and sanitary engineers, but should also be of considerable general interest to architects. Although an impressive amount of research, mainly American, is referred to, it should be remembered that the application of ultra-violet irradiation to the treatment of air in buildings is still in its infancy, and that there are certain dangers which would make its widespread adoption without expert advice an unwise procedure. Nevertheless it has such possibilities that architects would do well to keep a close watch on developments of its use in hospitals, schools and factories.

26.28 services and equipment: miscellaneous

RADIO INTERFERENCE

Abatement of Radio Interference from Electro-Medical and Industrial Radio-frequency Equipment. BS C. of P. 1002: 1947. (British Standards Institution. 2s.)

Guidance to designers and installers of industrial and medical equipment, including recommendations for the screening of windows for screened enclosures. Specialist code, but important where applicable.

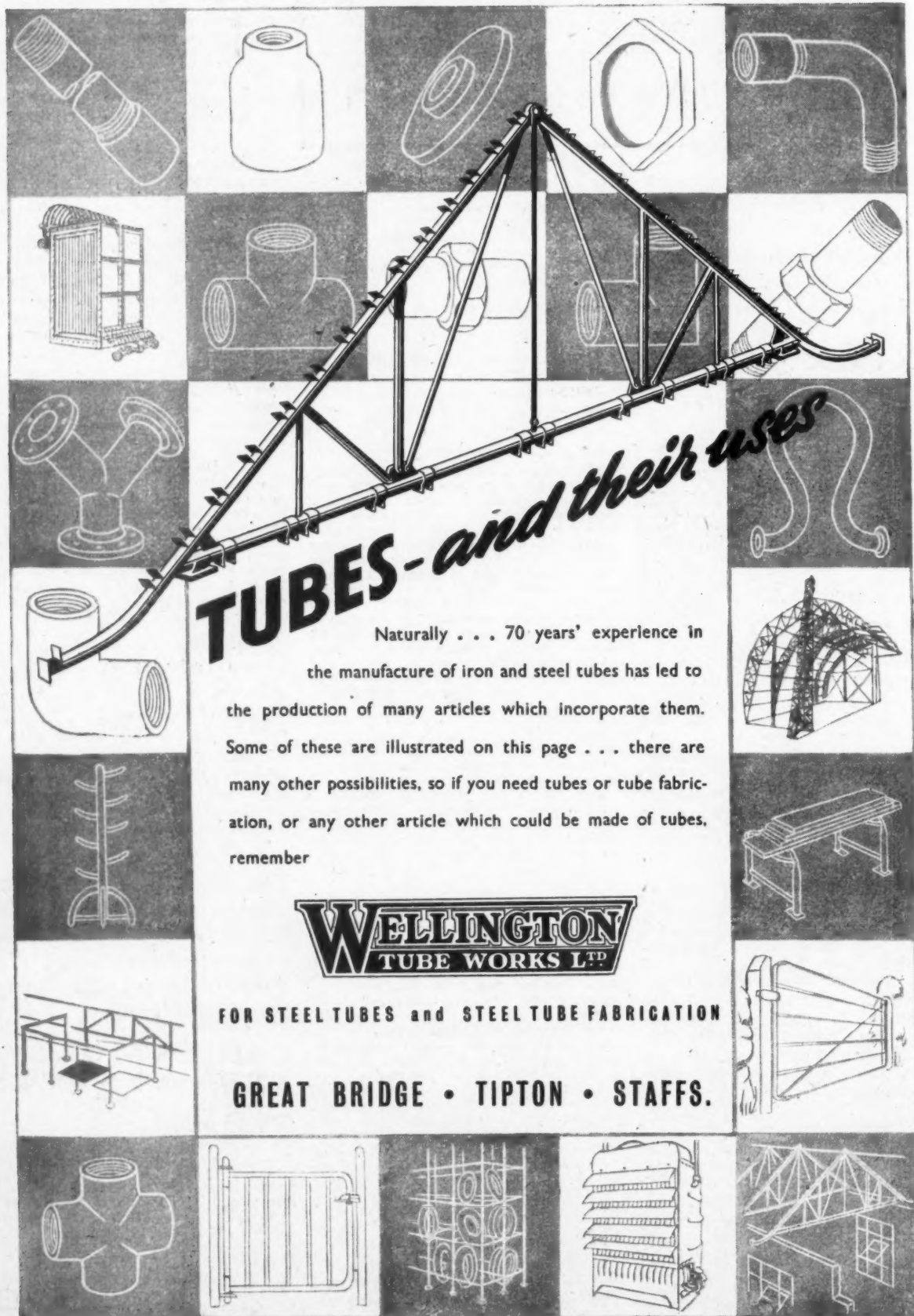
This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS

2943 PIT SAND

Q I should be glad to know if pit sand would make a suitable upfilling, or substitute for hard core, under concrete ground floors. The areas concerned are a maximum of 200 ft. contained between brick walls, and the depth of sand would be approximately 2 ft. The concrete floor would consist of a 5-in. slab with patent flooring on top.

A Pit sand is a very good substitute for hard core, providing that it is totally enclosed so that none of the sand can escape. For ideal conditions the pit sand should be moist, which enables it to be packed more solidly than if it is dry.



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As an alternative to the more useful tracing cloth, May and Baker have just introduced a plastic tracing film under the trade name of Ethulon. One face is shiny, while the other has a very smooth fine mat finish which takes pencil or ink well and seems to give a finer and more continuous line than can generally be obtained with other films, or with linen. Erasures are quite easy with the usual razor blade, and as the film is homogeneous no fibres are left, as with

linen, and the area can be drawn over again, no sign of the corrections being visible when prints are made. The degree of translucency is high, so that it is easy to see small lettering or thin lines when tracing, and for the same reason the exposure time for producing blueprints is considerably reduced. Water absorption is negligible, so that the dimensions remain stable. The material is available from the usual drawing office suppliers in ten yard rolls with a width of 30 inches. Fine ink lines on drying tend to appear grey rather than jet black, but this is an optical illusion which in no way affects reproduction. (*M & B Plastics Ltd., 3, Wimpole Street, London, W.1.*)

Announcements

A prefabricated aluminium house, erected on a bomb-site in Piccadilly and opened by Mrs. Attlee, is on view daily in aid of the Margaret McMillan Memorial Fund, for which it is hoped to raise £250,000 for child welfare. The house is finished throughout with Cellon material, and the painting was completed within a few hours of arrival on the site.

A price reduction of 2½ per cent. nett will be made by Wellington Tube Works, Ltd., on all tubes and fittings manufactured by them and delivered in the home trade from May 1. In the event of any increases in the cost of raw materials and labour the position will have to be reconsidered.

The final lecture in the special series of four on timber arranged by Mr. R. L. Hasberry, Training Officer, Ministry of Works, in collaboration with the Education Secretary of the TDA, was given by Mr. R. P. Woods, B.A., Chief Technical Officer of

TDA. The subject was *Some of the Newer Timbers, particularly those which have arrived on the market from South America*. He opened with a brief historical survey of the introduction of mahogany into this country, and outlined the magnitude of the task in trying to describe the newer timbers now arriving from the East Indies, Burma, Malaya, and Africa. Dealing with South American timbers, he outlined their properties and exhibited samples of the timbers of Meliaceae (mahoganies) family, which occur in South America, and discussed other timbers which tests have shown to be suitable for high class furniture and panelling work. Stress was laid upon the importance of having a knowledge of the botanical species and their structure, since there are so many vernacular names and common names given to the same timber, varying with the country of origin. The comparative lack of softwoods growing in South America was mentioned, and the similarity between the genus *Nothofagus* (Rauli, Coigue, Roble, etc.) in Chile, and those of New Zealand (red beech, silver beech, etc.) was also mentioned.

Mr. Clifford Duke, A.R.I.B.A., has removed from 55C, Greencoat Place, S.W.1, to 11, Haverstock Hill, N.W.3. (Primrose 2512).

Buildings Illustrated

Flats at Mill End, Bucks. (pages 421-422). Architect: Allen Foxley, F.R.I.B.A. General Contractors: R. Harding (Cookham), Ltd. Sub-contractors: Waterproofing materials, British Knapen, Ltd.; electric wiring, Wessex Electricity Co.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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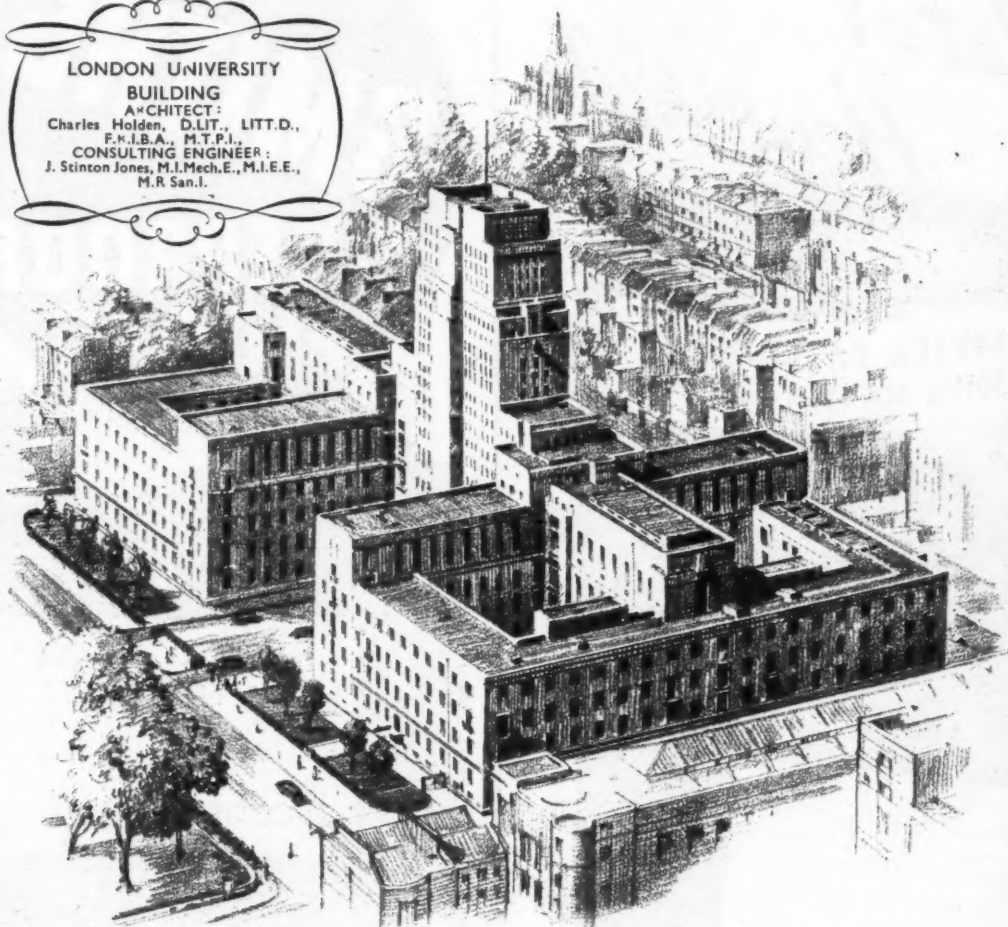
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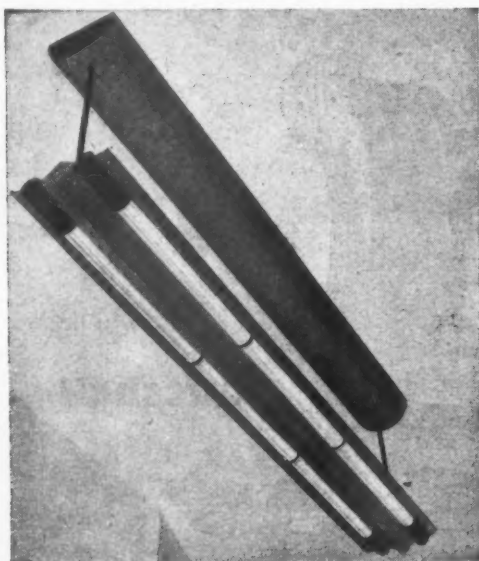
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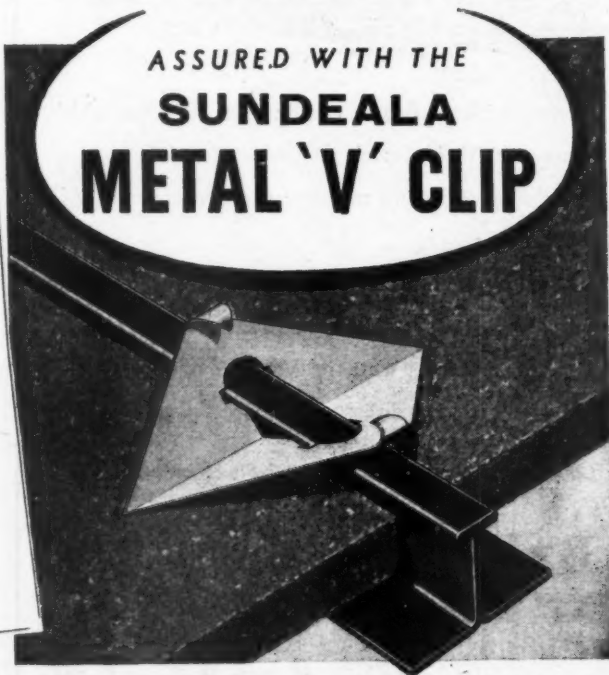
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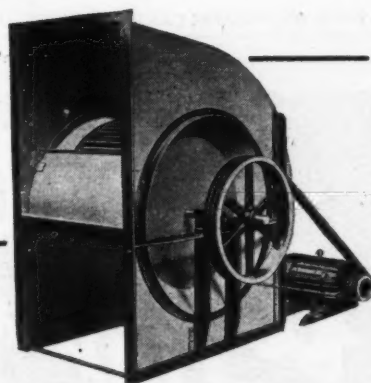
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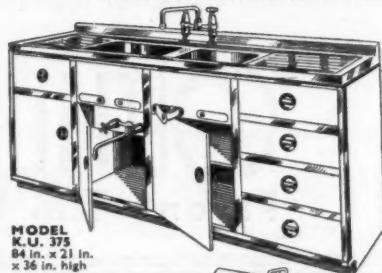
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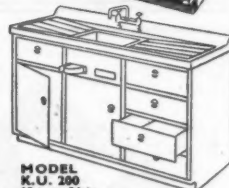
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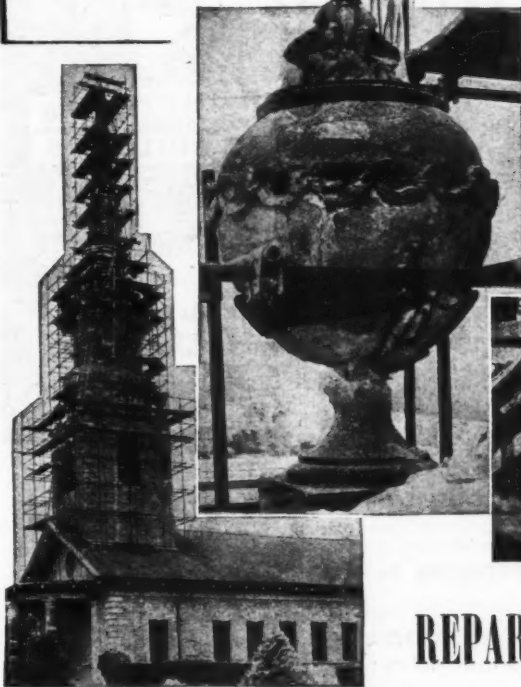
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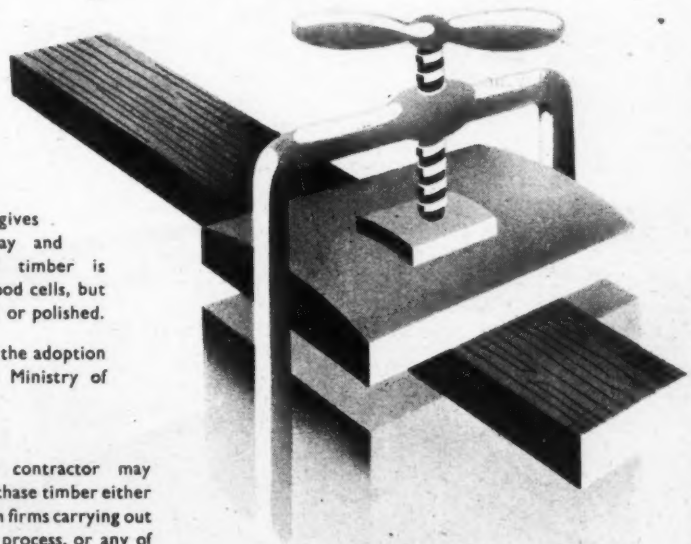
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 3, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

None of the vacancies in these columns relates to a man between the age of 18 and 50, inclusive, or a woman between the age of 18 and 40, inclusive, unless he or she is accepted from the provisions of the Control of Engagement Order, 1947, or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Eaton Place, London, S.W.1. Tel. Sloane 5615. 991

LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:—

PLANNING OFFICER. Grade III, £550 to £700 a year.

TECHNICAL ASSISTANT. 55s. a week to £280 a year.

Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural, surveying, or town planning qualifications.

Application forms may be obtained from the Architect to the Council (P), County Hall, Westminster Bridge, S.E.1 (enclosing stamped addressed foolscap envelope). Returnable not later than ten days from this date.

Canvassing disqualifies. (340) 868

LONDON COUNTY COUNCIL. HOUSING AND VALUATION DEPARTMENT.

ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural Assistant, at salaries of up to £580 a year. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the Department on the occurrence of vacancies. Engagement will involve Superannuation contributions at the rate of 6 per cent. of salary.

Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies. (870) 1032

HERTFORDSHIRE COUNTY COUNCIL. APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

Applications are invited for the appointment of Deputy County Architect, at a salary of £1,100 × £50 to £1,250 per annum. The commencing salary to be fixed in accordance with the qualifications and experience of the successful applicant.

Administrative experience and qualifications of leadership are essential to the post, and previous Local Government or similar experience is desirable, but not essential.

Applicants should state age, qualifications (one of which must be membership of the R.I.B.A.), and details of previous experience.

The successful candidate must provide and maintain a motor car, the standard allowance in accordance with the County Council's Scale being paid, and he must be prepared to reside within a reasonable distance of Hertford.

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

The appointment will be determinable by 3 months' notice on either side.

Canvassing, either directly or indirectly, will be a disqualification. No forms of application are being issued, but the applications, together with three references, should be addressed to C. H. Aslin, F.R.I.B.A., M.I.Struct.E., County Architect, County Hall, Hertford, Herts., not later than the first post on 15th May, 1948. 723

BOROUGH OF TWICKENHAM. BOROUGH ENGINEER'S DEPARTMENT. Applications are invited for the following positions:—

(a) ONE SENIOR PLANNING ASSISTANT (ESTABLISHED). Applicants must possess a recognized qualification in Town Planning, and be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and should have had extensive experience in planning, preferably with a Municipal Authority.

(b) ONE ARCHITECTURAL ASSISTANT (TEMPORARY).

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects, and it is desirable that applicants shall have had some experience with a Local Authority.

The National Joint Council's Scale of Salaries will apply, as follows:—

Post (a): Grade A.P.T., IV-V, £500—£15—£590.

Post (b): Grade A.P.T., III, £470—£15—£515.

The appointments are subject to the conditions of service laid down in the National Joint Council's Conditions of Service, and are subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination, and the appointments are subject to one month's notice on either side.

Applications, stating age, qualifications, experience, present and past appointments, and indicating which post is being applied for, should be forwarded, with copies of three recent testimonials, to Mr. A. S. Knolles, B.Sc., M.I.C.E., Borough Engineer, Municipal Offices, Twickenham, not later than 15th May, 1948.

Canvassing, either directly or indirectly, will disqualify.

W. H. JONES, Town Clerk.

Municipal Offices, Twickenham. 735

LISBURN RURAL DISTRICT COUNCIL.

APPOINTMENT OF SURVEYOR.

Applications are invited for the position of Full-time SURVEYOR to the Lisburn Rural District Council, at a salary of £600 per annum, rising by annual increments of £20 to a maximum of £700 per annum. In addition a cost-of-living bonus (at present £90 per annum) will be payable, plus Civil Service scale of travelling expenses.

In the case of candidates possessing special qualifications and/or experience consideration will be given to a higher salary.

Applicants must be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, or be in possession of an approved equivalent qualification. Applicants should, in addition, have had considerable experience of Waterworks, Sewerage and Sewage Disposal Works, Housing and General Construction.

The appointment will be subject to the approval of the Ministry of Health and Local Government for Northern Ireland, and preference will be given to ex-Service applicants possessing the required qualifications, provided that the Council is satisfied that applicants can, or within a reasonable time, will be able to fill the position efficiently. The successful applicant will be required to furnish satisfactory evidence of health and take up duty on appointment.

A copy of the terms and conditions of appointment may be obtained on application from the undersigned.

Applications, stating age, qualifications, experience, and particulars of present and past appointments, together with copies of recent testimonials, will be accepted by the undersigned up to 12 noon on Tuesday, 25th May, 1948.

(By Order) J. M. SHIRLEY, Clerk of Council.

Rural District Council Offices, Lisburn. 733

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors, in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at consolidated salaries of up to £580 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

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

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

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice.

Canvassing disqualifies. (632) 997

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent and temporary staff appointments:—

PERMANENT STAFF.

(a) SENIOR ASSISTANT ARCHITECTS (Housing and Education Sections). A.P.T., Grade V (£520-£570).

(b) SENIOR ASSISTANT ARCHITECT (Education Section). A.P.T., Grade IV (£480-£525).

(c) ASSISTANT ARCHITECTS (Education Section). A.P.T., Grade III (£450-£495).

(d) ASSISTANT ARCHITECTS (Housing and Education Sections). A.P.T., Grade II (£420-£455).

TEMPORARY STAFF.

(e) SENIOR ASSISTANT ARCHITECTS (Housing and Education Sections). A.P.T., Grade VI (£595-£660).

Preference will be given to Associates R.I.B.A. in respect of (a) and (e). Permanent appointments subject provisions of Local Government Superannuation Acts, 1937 and 1939, and successful applicants required to pass medical examination.

All appointments determined by one month's notice in writing on either side.

Applications must indicate specific appointment applied for, full details of age, qualifications, experience, present position and salary, and names of two persons to whom reference may be made, and should be delivered to the undersigned by Monday, 24th May.

J. NELSON MEREDITH, F.R.I.B.A., City Architect.

Eagle House, Colston Avenue, Bristol, 1. 805

CITY OF PETERBOROUGH.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments, on the staff of the City Engineer and Surveyor:—

(a) ARCHITECTURAL ASSISTANT (ONE). Grade III, A.P.T., i.e., consolidated salary £450, rising by annual increments of £495 (Schools).

(b) ARCHITECTURAL ASSISTANTS (TWO). Grade II, A.P.T., i.e., consolidated salary £420, rising by annual increments to £465 (Housing).

(c) ASSISTANT QUANTITY SURVEYOR (ONE). Grade IV, A.P.T., i.e., consolidated salary £480, rising by annual increments to £525 (Schools).

Applicants for appointments (a) and (b) should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

Applicants for appointment (c) should be capable of abstracting, billing and measurement of works on site. Experience in fixed fee contracts will be considered an advantage.

The City Council have adopted the National Scheme of Conditions of Service. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than Friday, 14th May, 1948.

Applicants must disclose whether they are related to any Senior Official or Member of the Authority. Canvassing, either directly or indirectly, will be deemed a disqualification.

ARTHUR J. REEVES, Town Clerk.

Town Hall, Peterborough. 750

CORPORATION OF LONDON.

APPOINTMENT OF ASSISTANT ARCHITECTS IN THE CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of Assistant Architects, to be engaged exclusively in works of restoration, reconstruction, and extension of important City buildings.

(a) SENIOR ASSISTANTS. Consolidated salary, £600-£800 p.a., according to qualifications and experience.

(b) JUNIOR ASSISTANT. Consolidated salary, £400-£500 p.a., according to qualifications and experience.

Candidates for (a) should be Associates of the Royal Institute of British Architects, with extensive experience in the design and preparation of working drawings for large civic and commercial buildings and for the conducting of Contract works.

Candidates for (b) should preferably be Associates of the Royal Institute of British Architects, with a good general architectural experience and capable of preparing working drawings and specifications.

The appointments, whilst being for the temporary staff, may extend over a number of years, as the amount of work envisaged is very considerable.

The appointments are subject to provisions of the Corporation's Superannuation Scheme, and candidates will require to pass a medical examination. The appointments are subject to one month's notice on either side.

Applications, giving particulars of age, training, and experience, past and present appointments, and date when available to commence duties, if selected, to be made to George Holliday, F.R.I.C.S., City Surveyor, 55/61, Moorgate, E.C.2. 804

COUNTY BOROUGH OF DONCASTER EDUCATION COMMITTEE.
EDUCATION ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECT.
 Applications are invited from men of suitable qualifications and experience for appointment as Assistant Architect. Preference will be given to candidates who are Associates of the Royal Institute of British Architects.

Salary in accordance with Grade A.P.T., V, of National Joint Council Scales (£520×£16×£15×£20=£570).

The post in the first instance will be temporary, but should the applicant prove suitable a permanent post of Senior Assistant Architect may be created.

Conditions of appointment obtainable from the undersigned on receipt of stamped addressed foolscap envelope. Applications should be endorsed "Assistant Architect," and received at this office by the 21st May, 1948.

V. H. HOSKIN,
 Chief Education Officer.

Education Office, Doncaster. 704
 April, 1948.

LUSAKA TOWN MANAGER'S BOARD.
LUSAKA, NORTHERN RHODESIA.
TOWN ENGINEER'S DEPARTMENT.
VACANCY—CLERK OF WORKS.

Applications are invited for the position of Clerk of Works. Candidates must be under 40 years of age and hold the Building Inspector's Certificate of the Institution of Municipal Engineers. Salary will be at the rate of £540 per annum, rising by annual increments of £20 to £600, plus cost-of-living allowance of from £40 to £96 per annum according to size of family under 16 years of age. Free unfurnished quarters and free transport to Northern Rhodesia will be provided for the officer and his wife. Leave on full pay at the rate of 30 days after each 12 months' service. Free rail fare to any one point in South Africa for the officer and his family once every two years. Leave may be accumulated up to a maximum of 90 days. Membership Local Medical Aid Society on contributory basis compulsory.

Applications, stating age, marital state, qualifications and experience, accompanied by copies of three recent testimonials, should be forwarded to the Northern Rhodesia Government Representative, Palace Chambers, Bridge Street, Westminster, London, S.W.1, by Friday, 21st May, 1948. 705

PETERLEE DEVELOPMENT CORPORATION.
 A team of enthusiastic Architects is to be built up for immediate work on the design of Peterlee, the new miners' town in Co. Durham. Architects, with suitable qualifications and outlook, are needed to participate in the construction of the most modern town in the world. The following posts in the Architect's Department are to be filled:—

SENIOR ARCHITECTS. Salary, £1,000-£1,250 p.a.

Should have wide general experience in modern design, and knowledge of office organization and site supervision. They will be in charge of three different fields of work; organization and research, planning, and housing and public buildings.

ARCHITECTS. Salary, £750-£1,000 p.a.
 Must be experienced, capable of taking charge of small groups, each working on a specific problem.

ASSISTANT ARCHITECTS. Salary, £600-£750 p.a.

JUNIOR ASSISTANT ARCHITECTS. Salary, £500-£450 p.a.

Applications, giving full particulars of experience, should be addressed to the Chief Architect, B. J. Hethkin, Peterlee Development Corporation, c/o Council Offices, Seaham, Co. Durham. 705

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of PRINCIPAL ASSISTANT ARCHITECT. Commencing salary will be £800, rising by annual increments of £25 to a maximum of £900 per annum, inclusive.

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

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant 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-upon-Thames, not later than the 8th May, 1948.

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

The Council will be unable to provide any housing accommodation, and the successful applicant will be expected to make his own arrangements in this direction.

DUDLEY AUKLAND,
 Clerk of the Council
 County Hall, Kingston-upon-Thames. 749

THE POLYTECHNIC, 309, REGENT STREET, W.1.
SCHOOL OF ARCHITECTURE, SURVEYING, AND BUILDING.

Applications are invited from Full-time and Part-time LECTURERS and STUDIO MASTERS in Architectural Subjects, for appointment to the Staff of the School as from September next. Applications should be made by letter in the first instance, addressed to the undersigned.

J. C. JONES,
 Director of Education. 777

CUMBERLAND COUNTY COUNCIL.
BUILDINGS INSPECTOR.

Applications are invited from duly qualified persons for the appointment of a Buildings Inspector, in the County Architect's Department, for the Workington district.

The appointed person will be required to live in or near Workington.

The salary will be in accordance with Grade III of the A.P. & T. Division of the National Scales of Salaries, £450, rising subject to satisfactory service to £495 by annual increments of £15.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination. The appointment will be terminable by one month's notice on either side.

Applicants must have had practical experience of building, supervision of building work and maintenance of property, and should be able to prepare reports. Previous experience with a public authority is desirable. The person appointed will be required to provide a motor car, and an allowance will be paid in accordance with the Council's scale (8 h.p.) for the time being in force.

Forms of application may be obtained from the County Architect, 4, Alfred Street North, Carlisle, and should be completed and returned to him, accompanied by copies of three recent testimonials, not later than Monday, 10th May, 1948.

G. N. C. SWIFT,
 Clerk of the County Council. 752
 20th April, 1948.

CITY OF SALFORD.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, in the City Engineer's Department. Salary in accordance with Grade III, A.P.T. Division, of the National Scale of Salaries, £450, rising by annual increments of £15 to a maximum of £495.

Preference will be given to applicants who have passed the Intermediate examination of the R.I.B.A. and have had experience in general architectural work and be able to prepare working drawings.

The appointments will be subject to (1) the provisions of the Local Government Superannuation Act, 1937; (2) the National Joint Council Scheme of Conditions of Service as adopted by the Council, and (3) the passing of a medical examination.

Applications, giving details of age, training and experience, together with copies of two recent testimonials, and endorsed "Architectural Assistant," to be addressed to the City Engineer, Town Hall, Salford, 3, and forwarded so as to be received not later than June 7th, 1948.

Applicants must disclose in writing whether they are related to any member of the Council or an officer of the Authority. Deliberate omission to make such a disclosure will disqualify and, if discovered after appointment, liability to dismissal will ensue. Canvassing, either directly or indirectly, will disqualify.

H. H. TOMSON, Town Clerk. 801

NEWPORT PAGNELL RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.
 Applications are invited for the appointment of Architect, to superintend this Council's building programme.

The appointment will be a whole time one and will be temporary in the first instance.

The salary will be in accordance with Grade V(a) of the National Scale (viz., £550 per annum, rising to £610 per annum, subject to satisfactory service).

Housing accommodation will be made available. The Officer appointed must provide his own car, towards which the Council will pay an allowance in accordance with the said National Scale.

Applicants must be Registered Architects, and should have passed the Final Examination of the Royal Institute of British Architects or hold an equivalent qualification, and have had experience of the design and execution of Housing schemes for a Local Authority as required by the Ministry of Health.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be terminable by three months' notice on either side.

Applications, stating age, qualifications, present and past appointments, and full details of experience, together with copies of three recent testimonials, must be sent to the undersigned not later than Monday, 10th day of May, 1948, endorsed "Housing Architect."

E. STAPLETON,
 Clerk of the Council.

Council Offices, 7, Station Road, Newport Pagnell, Blechley, Bucks. 747
 29th April, 1948.

CITY OF NOTTINGHAM.
ESTATES DEPARTMENT.

APPOINTMENT OF WORKS MANAGER.
 Applications are invited for the appointment of Works Manager, in the Estates Department.

The Works Organisation, which has a staff of 350, deals with the maintenance of 20,000 Municipal Houses, together with Public Buildings, and is also responsible for the erection of buildings by direct labour.

The person appointed must have a sound technical and practical knowledge of all branches of the building industry. He must possess administrative ability, and be capable of organising and developing a Direct Works Section.

The commencing salary will be £300 per annum. The appointment will be subject to the Corporation's Superannuation Scheme, and to the passing of a medical examination, and will be terminable by three months' notice on either side.

Applications, stating age, qualifications, present and previous appointments, particulars of experience, etc., accompanied by copies of three recent testimonials, should be forwarded to the Estates Surveyor, Guildhall, Nottingham, not later than the 31st May, 1948.

J. E. RICHARDS,
 Town Clerk. 772
 Guildhall, Nottingham.

HAMPSHIRE COUNTY COUNCIL.

Applications are invited for the following appointments on the established staff of the County Architect's Department:—

(a) ASSISTANT QUANTITY SURVEYOR. Grade VII. Salary, £635×£25 to £710 per annum.

(b) ASSISTANT ARCHITECT. Grade V. Salary, £520×£15 and £20 to £570 per annum.

(c) ARCHITECTURAL ASSISTANT. Grade I. Salary, £390×£15 to £435 per annum.

(d) ASSISTANT MAINTENANCE SURVEYOR. Grade III. Salary, £450×£15 to £495 per annum.

(e) ASSISTANT HEATING ENGINEER. Grade IV. Salary, £480×£15 to £525 per annum.

Candidates for appointments:—

(a) Should be members of the R.I.C.S. and have had good experience in the preparation of estimates and Bills of Quantities for all types of buildings and in the settlement of final accounts and building contracts.

(b) Should be Registered Architects, preferably A.R.I.B.A., with good general experience in design and construction of public buildings.

(c) Should have passed the Intermediate examination of the R.I.B.A. and have had some practical experience.

(d) Should have passed the Intermediate examination of the R.I.C.S. or R.I.B.A. and have had experience on maintenance and minor works and surveys of sites and buildings.

(e) Should be Graduates of the Institute of Heating and Ventilating Engineers or possess other suitable examination qualifications, and accustomed to the design of heating, hot water services, and ventilating systems under supervision to various types of County buildings. A knowledge of electrical installations and mechanical equipment of buildings will be considered an advantage.

The appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications should be made on forms to be obtained from Simpson, Low, A.R.I.B.A. Dipl. Arch., County Architect, The Castle, Winchester, to whom they should be returned not later than Saturday, the 29th May, 1948.

G. A. WHEATLEY,
 Clerk of the County Council.

The Castle, Winchester. 768
 26th April, 1948.

CITY OF HEREFORD.

Appointment of:—

(a) DEPUTY CITY SURVEYOR AND WATERWORKS ENGINEER.

(b) CHIEF ARCHITECTURAL AND PLANNING ASSISTANT.

Applications are invited for the above superannuable appointments, on the permanent staff of the City Surveyor. The appointments are subject to the conditions of service prescribed by the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, the salary for each appointment being Grade V (£520-£570).

Applicants for appointment (a) should be Corporate Members of the Institution of Civil Engineers or hold the Testamur of the Institution of Municipal Engineers, whilst membership of the Institution of Water Engineers will be an advantage.

Applicants for appointment (b) should hold recognized architectural and planning qualifications, as prescribed in Appendix B. to the conditions of service mentioned above.

Forms of application and particulars of each appointment may be obtained from Mr. F. Margerison, A.M.I.C.E., City Surveyor, Town Hall, Hereford, and to whom completed applications should be returned in suitably endorsed envelopes not later than Thursday, 20th May, 1948.

Canvassing will be a disqualification.

T. B. FELTHAM,
 Town Clerk. 760
 Town Hall, Hereford.

CROWN AGENTS FOR THE COLONIES.

Applications from qualified candidates are invited for the following post:—
QUANTITY SURVEYOR required by Gold Coast Government, Public Works Department, for 18 to 24 months, with prospect of permanency. Commencing salary and overseas pay up to £1,060 a year, rising to £1,200. Outfit allowance £60. Free passages. Candidates must be proficient in taking off, abstracting, and preparing bills of quantities for general building work (including reinforced concrete). Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/12810/5D on both letter and envelope. 769

**HERTFORDSHIRE COUNTY COUNCIL.
APPOINTMENT OF DEPUTY COUNTY PLANNING OFFICER.**

Applications are invited for the above appointment, at an annual salary of £1,150, rising by annual increments of £50 to £1,350, together with travelling and subsistence allowances, in accordance with the Council's scale. The commencing salary will be fixed in accordance with the qualifications and experience of the successful applicant.

Applicants must be Corporate Members of the Town Planning Institute, and hold other professional qualifications. Preference will be given to persons with considerable administrative and executive experience in a County Planning Office. Applications, on forms to be obtained from the Clerk of the County Council, County Hall, Hertford, must be returned not later than the 24th May, 1948. 774

**COUNTY BOROUGH OF EASTBOURNE.
BOROUGH ENGINEER'S DEPARTMENT.**

Applications are invited for the position of **ASSISTANT ARCHITECT**, on the permanent staff of the Borough Engineer, at a salary of £520-£570 per annum. The appointment will be subject to the National Joint Council's Conditions of Service and the Local Government Superannuation Act, 1937. Candidates should possess a sound knowledge of Architectural design, construction and draughtsmanship. Professional qualifications and local authority experience are desirable, but not essential. Applications, together with copies of two testimonials or the names of two referees, should reach the undersigned not later than Wednesday, 12th May, 1948.

RAYMOND WILLIAMS, B.Sc.,
A.M.Inst.C.E.,
Borough Engineer.

Borough Engineer's Department,
2/4, Saffrons Road, Eastbourne. 775

**COUNTY BOROUGH OF SOUTHPORT.
BOROUGH ENGINEER'S DEPARTMENT.**

Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT**, on the permanent staff of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade III of the A.P.T. Division of the National Joint Council Scale of Salaries (£450-£495 p.a. per annum). The commencing salary within the Grade will be determined according to the candidate's qualifications and experience. Candidates should be Registered Architects and Corporate Members of the R.I.B.A., and must have had considerable experience in architectural work generally, including Municipal buildings, housing schemes, etc., and in the preparation of plans, estimates, specifications, and builders' quantities.

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

Provision of suitable housing accommodation will be considered by the Council.

Applications, endorsed "Architectural Assistant," stating age, with full particulars of qualifications and experience, accompanied by copies of three recent testimonials, must be delivered to the Borough Engineer, Town Hall, Southport, not later than Monday, 17th May, 1948.

R. EDGAR PERRINS,
Town Clerk.

Town Hall, Southport.
April, 1948. 765

KENT COUNTY COUNCIL.

Applications are invited for four appointments of **ASSISTANT ARCHITECTS**, each at a salary in accordance with A.P.T. Division, Grade V(a) (£550-£610 a year). The posts are superannuable, and successful candidates will be required to pass a medical examination.

Candidates must be Members of the Royal Institute of British Architects, by examination, have previous service with a Local Authority, be experienced in the design, construction and supervision of educational or other County buildings, and be fully competent to take charge of projects.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than the 31st May, 1948.

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

County Hall, Maidstone.
22nd April, 1948. 771

**COUNTY BOROUGH OF WALLASEY.
DEPARTMENT OF THE BOROUGH ENGINEER, SURVEYOR AND ARCHITECT.**

Applications are invited for the following appointments:—

ONE ARCHITECTURAL ASSISTANT. A.P.T.,
III, £450-£495 per annum.

TWO ARCHITECTURAL ASSISTANTS.
APT., II, £420-£465 per annum.

ONE ARCHITECTURAL ASSISTANT. A.P.T.,
I, £390-£435 per annum.

TWO ARCHITECTURAL ASSISTANTS.
Misc. Grade, £315-£360 per annum.

ONE ARCHITECTURAL ASSISTANT. Gen.
Grade (governed by age).

The successful candidate will be required to pass a medical examination, contribute under the 1937 Superannuation Act, be subject to one month's notice, and be subject to the National Scheme of Conditions of Service.

Further particulars of the appointments, and forms of application, may be obtained from the Borough Engineer, Surveyor and Architect, Town Hall, Wallasey.

The forms of application, together with three copies of recent testimonials, must be delivered to the Borough Engineer not later than Tuesday, the 8th June, 1948.

EMRYS EVANS,
Town Clerk.

Town Hall, Wallasey. 793

**BOROUGH OF EDMONTON.
TECHNICAL STAFF.**

The Borough Council require:—

(1) ARCHITECTURAL ASSISTANT. Grade
A.P.T., V, £540-£515 (2) and £20 (1) to £590 per annum.

Candidates should be Associates of the R.I.B.A., or equivalent, and have had experience in Housing and General Building Work.

(2) ENGINEERING ASSISTANT. Grade
A.P.T., II, £440-£415 to £485 inclusive.

Full particulars, forms of applications and conditions of service from the undersigned, to whom completed applications must be returned not later than 28th May, 1948.

H. BACKHOUSE,
Town Clerk.

Town Hall, Edmonton, N.9.
27th April, 1948. 792

**BOROUGH OF EDMONTON.
ENGINEERING ASSISTANT (MAIN DRAINAGE).**

The Council require an Engineering Assistant, with special experience in the preparation of large schemes of Main Drainage. The appointment may be for 4 or 5 years, subject to satisfactory service.

The salary is fixed at £610 per annum, and the minimum qualification is Associate Member of the Institution of Civil Engineers or Institution of Municipal Engineers.

Further particulars, forms of application and conditions of service from the undersigned, to whom completed applications should be returned as quickly as possible.

H. BACKHOUSE,
Town Clerk.

Town Hall, Edmonton, N.9.
28th April, 1948. 791

**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 **STUDIO INSTRUCTOR IN ARCHITECTURAL DESIGN AND CONSTRUCTION.**

Applicants must be members of the R.I.B.A., and should preferably be holders of a degree or diploma of a recognized School of Architecture. Special experience and knowledge of Science applied to Building will be an additional qualification.

The post is a newly created one to meet expansion and is permanent, dating from September 1, 1948. Salary will be paid in accordance with the Burnham (Technical) Award.

Forms of application and further particulars may be obtained on receipt of a stamped addressed foolscap 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 fourteen days from the appearance of the advertisement. 790

**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 **TEACHER OF GENERAL BUILDING AND ARCHITECTURAL SUBJECTS**, for National Certificate and Craft Courses in the Building Trades, and to assist in the studio work of the School of Architecture.

The post is newly created to meet expansion and is permanent, dating from September 1, 1948. Salary will be paid in accordance with the Burnham (Technical) Award.

Forms of application and further particulars may be obtained on receipt of a stamped addressed foolscap 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 fourteen days from the appearance of the advertisement. 789

BOROUGH OF WREXHAM.**HOUSING ARCHITECT'S DEPARTMENT.**

Applications are invited for the temporary appointment of **DEPUTY HOUSING ARCHITECT**, in the Housing Architect's Department, at a salary of £575 per annum (inclusive of cost-of-living bonus).

Further particulars and conditions of appointment may be obtained from the undersigned, to whom applications are to be delivered by not later than first post on Thursday, the 20th May, 1948.

Subject to the conditions of appointment, the Corporation is prepared to provide a house for the successful applicant and to pay his removal expenses.

PHILIP J. WALTERS,
Town Clerk.

Guildhall, Wrexham.
28th April, 1948. 779

COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

Applications are invited for the appointment of **SENIOR ASSISTANT ENGINEER (HEATING AND ELECTRICAL)**, in the Department of the Borough Engineer and Surveyor. Salary, Grade A.P.T., VI, commencing £595 p.a., maximum £660 p.a. The Council intend to make housing accommodation available shortly. Subject to medical examination and superannuation.

Candidates should have considerable experience in the design, installation and maintenance of heating and electrical apparatus and plant in public and domestic buildings, and should preferably be members of the Institution of Electrical or of Mechanical Engineers.

Applications, stating age, education, training, qualifications, experience, and past and present employment, and accompanied by one copy testimonial and two professional references, to be sent to the Borough Engineer, Municipal Buildings, Southend-on-Sea, by Friday, 21st May, 1948. Canvassing will disqualify.

ARCHIBALD GLEN,
Town Clerk.

Southend-on-Sea.
22nd April, 1948. 770

**NORWICH CITY COLLEGE AND ART SCHOOL.
ST. GEORGE STREET, NORWICH.**

Principal: FRANK BRIERS, B.Sc., D.Phil.(Oxon). Required for 1st September, 1948, Full-time **LECTURER** in Architectural subjects. Candidates should possess the A.R.I.B.A. and if possible should have had some previous teaching experience, either full-time or part-time. Duties will be mainly in the School of Art, but certain associated classes are held in the Department of Building, Burnham Scale.

Application forms, which may be obtained by sending a stamped addressed envelope to the Director of Education, City Hall, Norwich, should be returned to the Principal as soon as possible. 802

**TETTENHALL URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, on the Staff of the Engineer and Surveyor, at a salary within Grade IV of the A.P.T. Division of the National Scale of Salaries (£480-£525 per annum).

Applicants should have had experience in connection with the design of houses and estate development, and should be competent to prepare plans, specifications, etc., in connection with same.

The Council will give consideration to the provision of housing accommodation to the successful applicant, if married.

Applications, stating age, details of qualifications, experience, accompanied by one copy testimonial and the names of two persons to whom reference can be made, should be sent to the Engineer and Surveyor, Council Offices, Tettenhall, Staffs, by 22nd May, 1948, endorsed "Architectural Assistant."

Canvassing, directly or indirectly, will be a disqualification.

JOHN HINCKES,
Clerk to the Council.

Tettenhall, Staffs.
21st May, 1948. 781

BRITISH ELECTRICITY AUTHORITY.**EASTERN DIVISION.**

Applications are invited for the following Eastern Division appointments:—

TWO ASSISTANT ARCHITECTS. Salaries between £545-£720 p.a.

TWO ARCHITECTURAL ASSISTANTS. Salaries between £500-£625 p.a.

TWO STRUCTURAL ENGINEERING ASSISTANTS. Salaries between £550-£650 p.a.

Applicants for the Architectural vacancies should have some experience in the design and alteration of industrial buildings.

Applicants for the Structural Engineering vacancies must have experience in the design of structural steelwork and reinforced concrete structures.

Initial salaries will be in accordance with experience and qualifications.

Applications to be made in writing, stating experience and salary required, to Divisional Controller, Eastern Division, British Electricity Authority, Northmet House, Southgate, N.14.

(By permission of the Ministry of Labour and National Service under the Control of Engagements Order, 1947.) 764

CITY OF CARDIFF EDUCATION COMMITTEE.

THE TECHNICAL COLLEGE.

Principal: A. HARVEY, Ph.D., B.Sc., F.Inst.P.
THE WELSH SCHOOL OF ARCHITECTURE.
Applications are invited for a full-time post as LECTURER AND STUDIO INSTRUCTOR in the School of Architecture. Candidates should have been trained in a recognized School of Architecture and be Associates of the R.I.B.A. Salary in accordance with the Burnham (Technical) Scale, i.e., £300×£15-£555, plus allowances for training and qualifications, the maximum possible salary being £660 per annum. War service and professional experience will be counted towards teaching service in fixing the commencing salary.

Application forms, together with further particulars, may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope, and should be returned as soon as possible.

W. J. WILLIAMS,

Director of Education.

City Hall, Cardiff.

April, 1948.

800

SPALDING URBAN DISTRICT COUNCIL. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Architect and Surveyor's Department, at a salary in accordance with Grade IV (Administrative, Professional and Technical Division), viz., £480 per annum, rising by annual increments of £15 to £525 per annum.

Candidates must be Registered Architects, and have had a good general experience, particularly in the preparation of working drawings, specifications and quantities for Municipal housing schemes.

The appointment will be subject to—
(1) The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

(2) The Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, accompanied by names of two referees, must be delivered to the undersigned not later than 15th May, 1948.

RAYMOND W. HASTINGS,

Clerk of the Council.

11, Market Place, Spalding.

28th April, 1948.

799

Tenders

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

SOUTHGATE BOROUGH COUNCIL. TO BUILDERS AND CONTRACTORS. ERECTION OF NEW FLATS AT "THE POPLARS" SITE, BRAMLEY ROAD, SOUTHGATE, N.14.

The above-mentioned Council invite tenders for the erection of Thirty-Six Flats in Three Blocks, at "The Poplars" Site, Bramley Road, N.14. Plans can be seen by arrangement with the Borough Engineer and Surveyor, Mr. J. T. W. Peat, F.R.I.B.A., at the Town Hall, Palmers Green, N.13.

Contractors wishing to tender should make written application not later than 14th May, 1948, to the Borough Engineer and Surveyor, enclosing cheque for £2 2s. as deposit for form of tender and Bills of Quantities: this deposit will be returned on receipt of a bona-fide tender and/or the return of all documents. In the case of the accepted tender, the deposit will be retained until a Contract and Bond have been entered into with the Council and, in the event of withdrawal, such deposit will be forfeited.

Form of tender and Bills of Quantities will be

forwarded to Contractors before 21st May, 1948, and tenders in envelope provided must reach the undersigned not later than noon on 17th June, 1948.

The Council do not bind themselves to accept the lowest or any tender, and the acceptance of any tender will be subject to the approval of the Ministry of Health.

GORDON H. TAYLOR,

Town Clerk.

Southgate Town Hall, Palmers Green, N.13.

29th April, 1948.

776

Partnerships and Financial

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

PROSPECTIVE JUNIOR PARTNER (Chartered Architect and/or Chartered Surveyor), age 30-40, required by City Firm of Architects, Surveyors and Valuers; must be experienced in Building, Surveying and Valuation of Urban Properties; commencing salary, £750 upwards, according to qualifications and experience. Write D.873, c/o Streets, 110, Old Broad Street, E.C.2. 706

Architectural Appointments Vacant

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

SENIOR ASSISTANT required to take charge of office of Central London Architect; experience in building surveys, specifications, reports, draughtsmanship, etc.; possibility of partnership; state age, experience, salary.—Box 680.

ARCHITECTURAL DRAUGHTSMAN required for service with large Industrial Concern operating in the Middle East; secondary school education; age not over 35; attractive salary, plus generous allowance in local currency, according to qualifications and experience; free furnished bachelor accommodation, medical attention, passage out and home; kit allowance. Apply, stating age and full details of qualifications and experience, quoting Dept. F.64, to Box 1169, at 191, Gresham House, E.C.2. 724

SENIOR ASSISTANT required for varied practice; office experience essential. Kennington & Farms, F.A. and A.R.I.B.A., 130, Crawford Street, W.1. Welbeck 6543-4. 740

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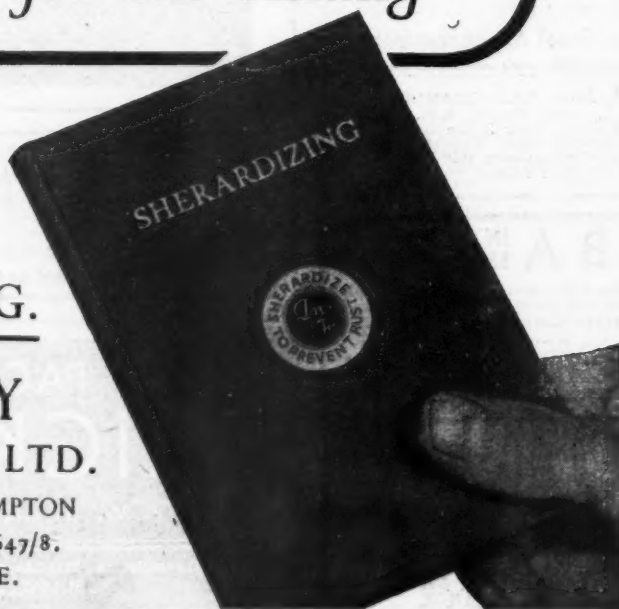
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