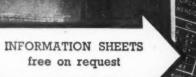
ARTS DEPT. The Architects' JOURNAL for March 3, 1949 E ARCHIT Happele at ★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is pub-lished in two parts—A to Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address. Architectural Association, 34/6, Bedford Square, W.C.1. Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts. AAI ABS Architects' Benevolent Society. 66, Portland Place, W.1. Welbeck 5721 Architects' Benevolent Society. 66, Portland Place, W.I. Wei Association of Building Technicians. 5, Ashley Place, S.W.I. Victo Arts Council of Great Britain. 4, St. James' Square, S.W.I. Whit Aluminium Development Association. 33, Grosvenor Street, W.I. Mayf Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.I. Eusi Architectural Students' Association. School of Architecture, Manchester, Municipal School of Art, All Saints, Manchester, 15. Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.I. ABT Victoria 0447-8 ACGB Whitehall 9737 ADA Mayfair 7501/8 APRR standard contents Euston 2158-9 every issue does not necessarily contain ArchSA all these contents, but they are Ardwick 3480 ARCUK Welbeck 9738 the regular features which ASB continually recur. 66, Portland Place, W.1. Welbeck 5721 15, Half Moon Street, Piccadilly, W.1. Grosvenor 4761 AScW Association of Scientific Vision Board of Architectural Education. 66, Portland Place, W.1. Welbeck 5721 Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706 Mayfair 8641/6 Association of Scientific Workers. NEWS and COMMENT BAE BATC Diary BC Building Centre. 9, Conduit Street, W.1. Mayfair 8641/6 British Colour Council. 28, Sackville Street, W.1. Regent 3613 British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869 British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716 British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bat 9434 British Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554 British Gas Federation. 1, Grosvenor Place, S.W.1. Sloane 8266 BCC News BCCF Architects' Commonplace Book BDA BEDA Astragal's Notes and Topics BGC BGF Letters BLA British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. **Glasgow Central 2891** British Institute of Adult Education. 29, Tavistock Square, W.C.1. Building Industries Distributors. 52, High Holborn, W.C.1. Building Industries National Council. 11, Weymouth Street, W.1. BIAE Societies and Institutions Euston 5385 BID Chancery 7772 BINC Langham 2785 **TECHNICAL** SECTION BOT Board of Trade. Millbank, S.W.1. Whitehall 5140 Building Research Station. Bucknalls Lane, Watford BRS Garston 2246 Information Sheets Building Societies Association. 14, Park Street, W.1. BSA Mayfair 0515 RST British Standards Institution. 28, Victoria Street, S.W.1. Abbey 3333 Information Centre Bruilding Trades Exhibition. 26, Victoria Street, S.W.1. Abbey 5555 Building Trades Exhibition. 4, Vernon Place, W.C.1. Holbron 8146/7 City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon. Newport 3111 County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury. Shrewsbury 3031 Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255 Copper Development Association. Kendals Hall, Radlett Herts. Radlett 5616 BTE CABAS Current Technique CAS Questions and Answers CCA Prices CDA CIAD Central Institute of Art and Design. 41, 42, Dover Street, W.1. The Industry Regent 3074 CIAM Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, Switzerland CID Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322 PHYSICAL PLANNING CPC Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7. Kensington 8161 SUPPLEMENT Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 CPRE CUJC Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1. Victoria 1534 Design and Industries Association. 13, Suffolk Street, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. Electricity Commission. Savoy Court, Strand, W.C.2. DIA Whitehall 0540 Victoria 9040 BUILDINGS CURRENT DOT Temple Bar 7565 EC EJMA English Joinery Manufacturers Association (Incorporated). Sackville House, STATISTICS Regent 4448 HOUSING 40, Piccadilly, W.1. English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. EPNS FAS Sloane 2837 Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Wa Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1. Wh Federation of British Industries. 21, Tothill Street, S.W.1. Wh Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Architectural Appointments FB 1951 Waterloo 1951 FASSC Wanted . Vacant and Whitehall 9606 FBI Whitehall 6711 FC FCMI Sloane 1002 FDMA The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 FLD Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs. Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583 Ulverston 201 FMB [Vol. 109 Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041 No. 2821] FRHB THE ARCHITECTURAL PRESS FS (Eng.) Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1. 9, 11 and 13, Queen Anne's Gate, Westminster, Sloane 2837 S.W.1. 'Phone : Whitehall 0611 GG 27, Grosvenor Place, S.W.1. Sloane 2844 Georgian Group. Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. HC Whitehall 2881 Housing Centre, 13, Surrow, Survey, Fair Man, S. W.1. Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 3158 Price 9d. IAAS ICE Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577 Registered as a Newspaper.

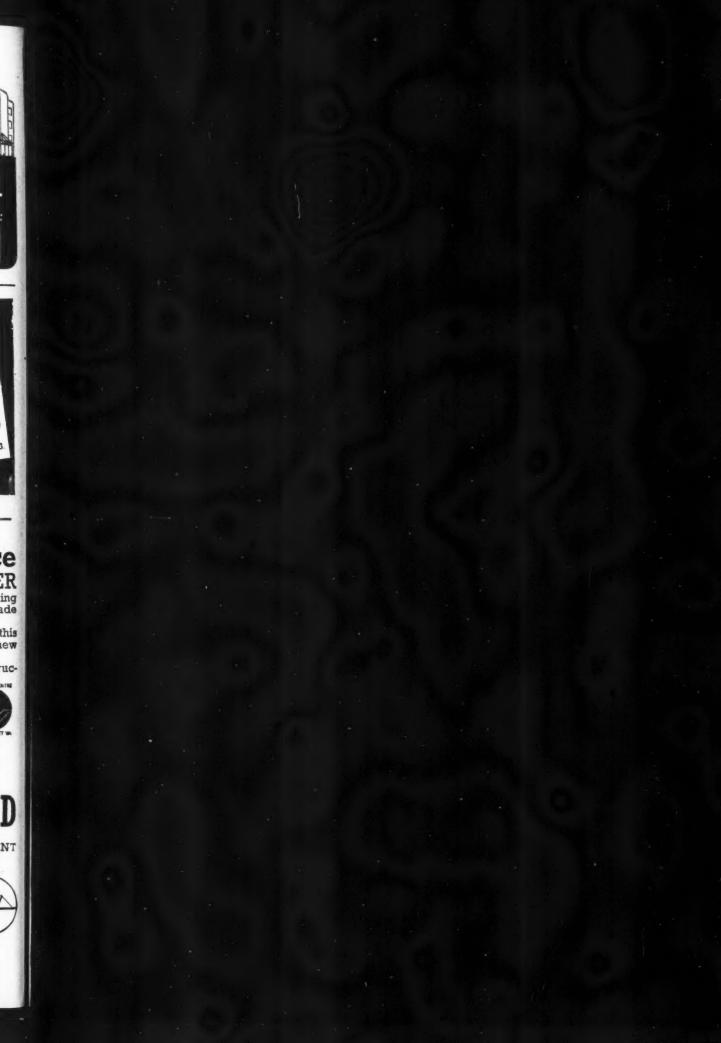


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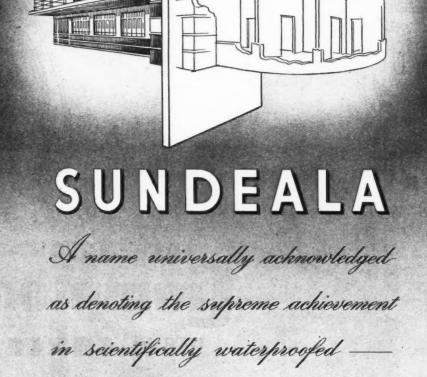
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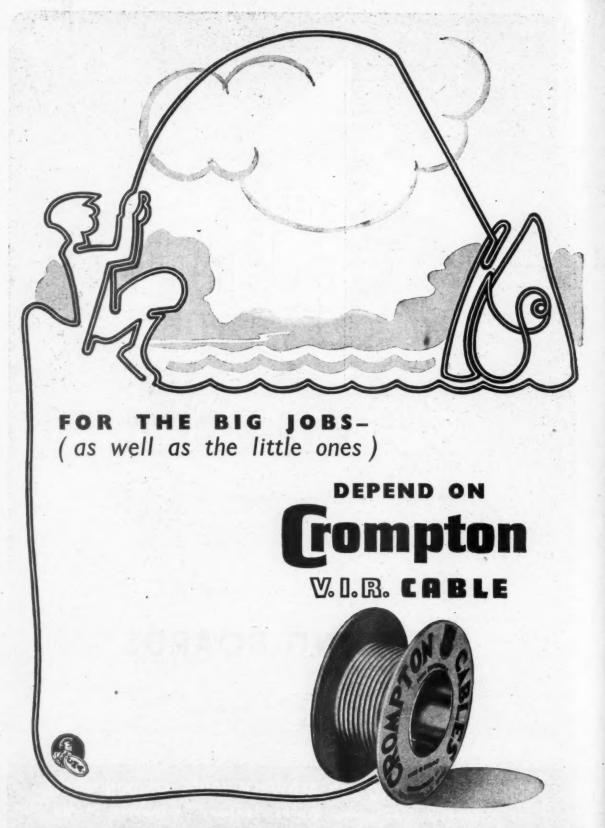
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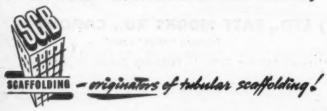
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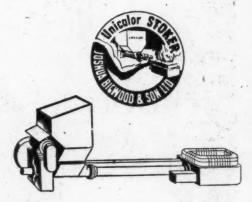
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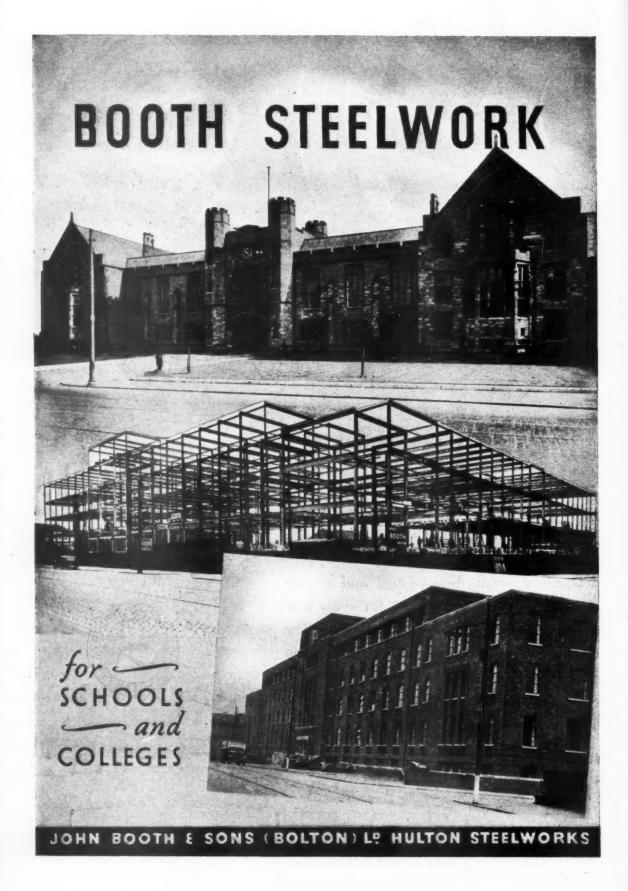
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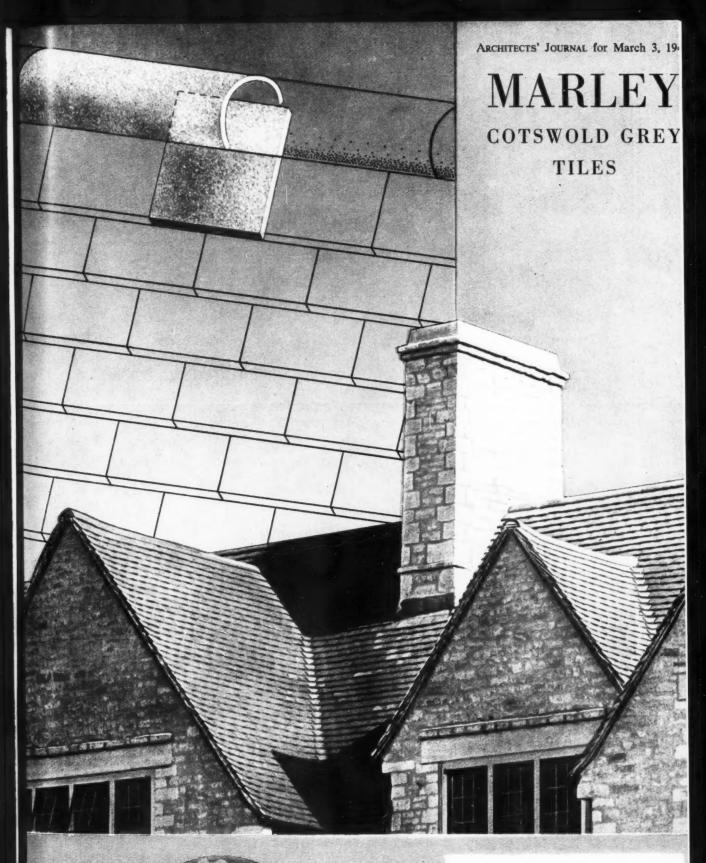


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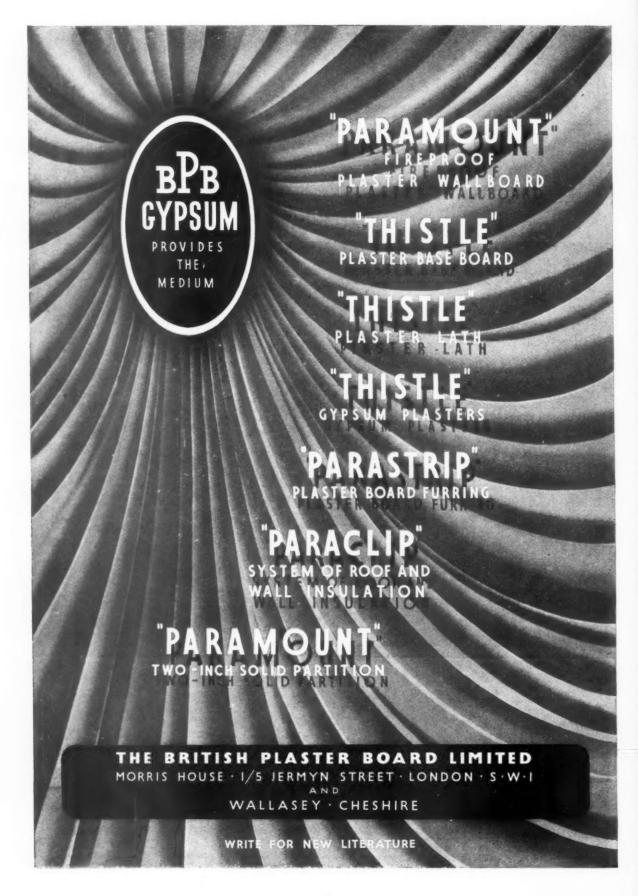






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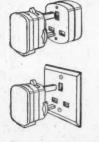
Head Office: London Rd., Riverhead, Sevenoaks, Kent. 'Phone: Sevenoaks 2251 Scoutish Office: Cadder, Bishopbriggs, Nr. Glasgow. 'Phone: Bishopbriggs 493/4 WORKS THROUGHOUT THE COUNTRY THE COTSWOLD GREY COLOUR shown in the illustration is one of the standard colours in which Marley Plain Tiles are at present available. Other types of Marley Tiles are Old English Pantiles, Mendips, Romans and Ludlows. All Marley Roofing Tiles are now surfaced with permanently coloured granules, and are available in a full range of colours.





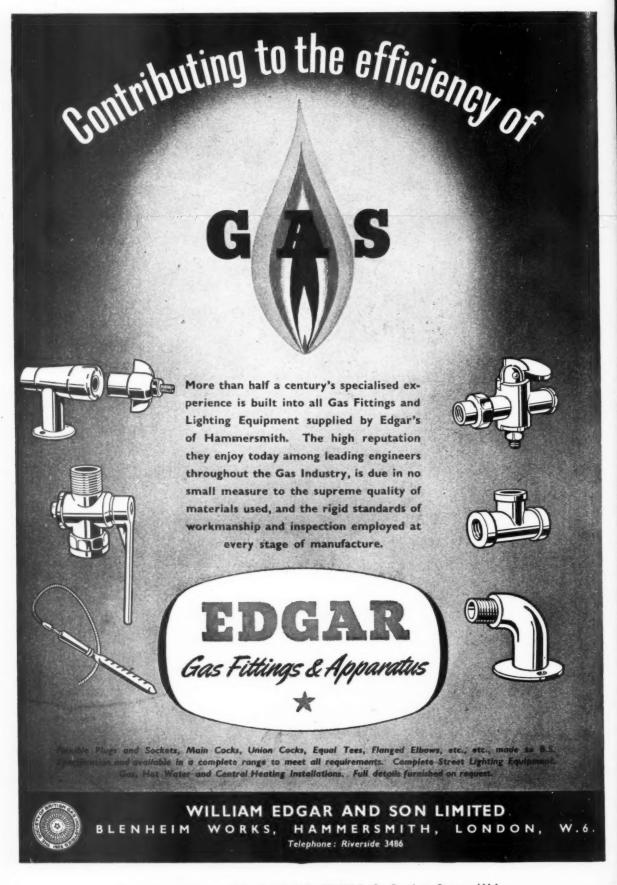






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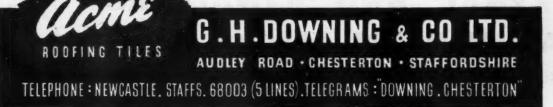
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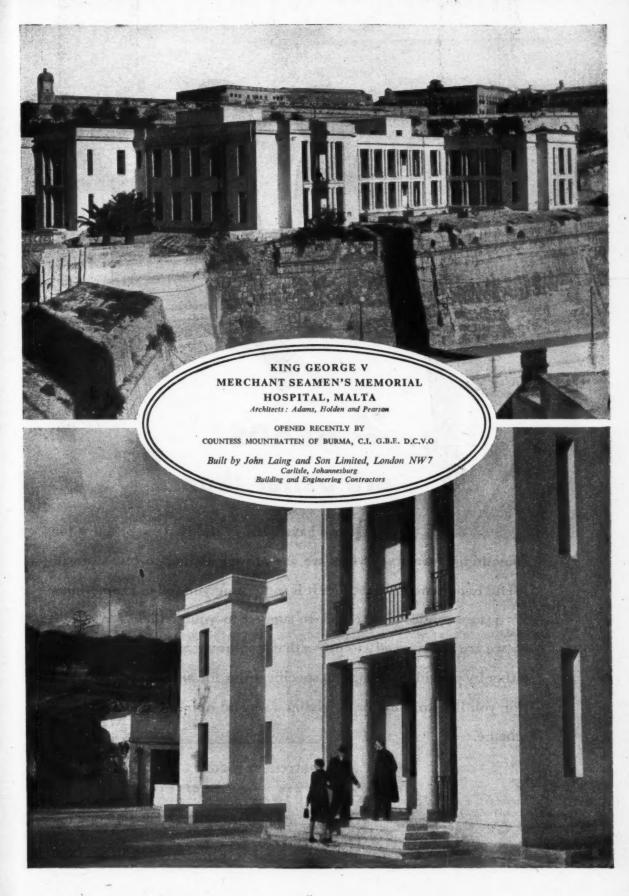
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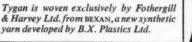
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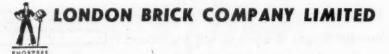
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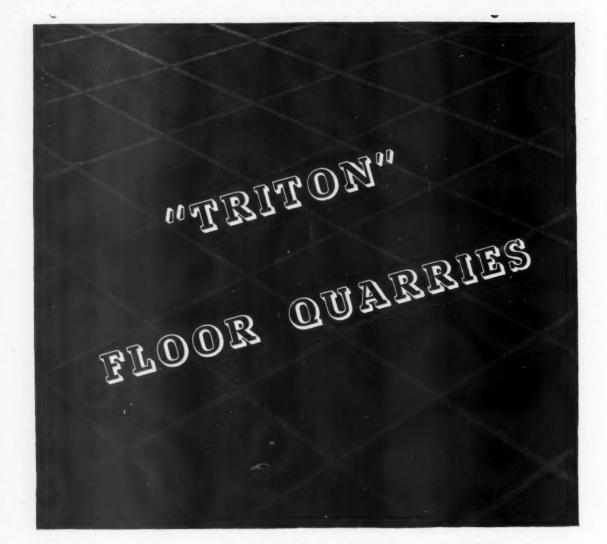
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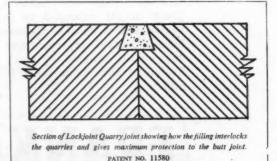
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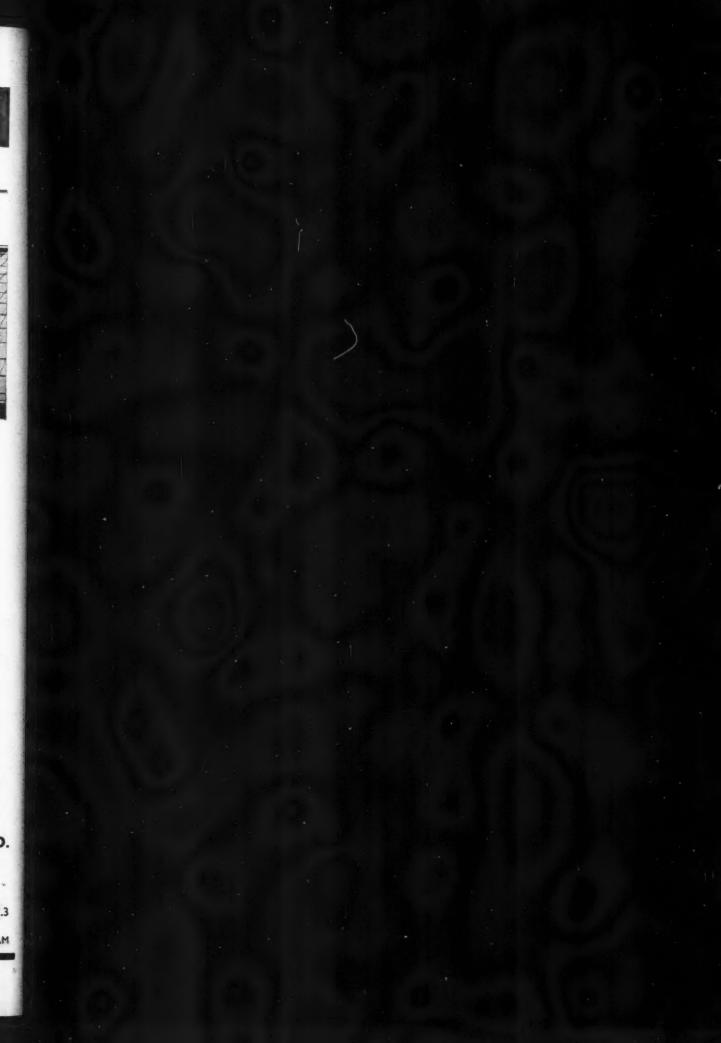
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THE ARCHITECTS' JOURNAL for March 3, 1949



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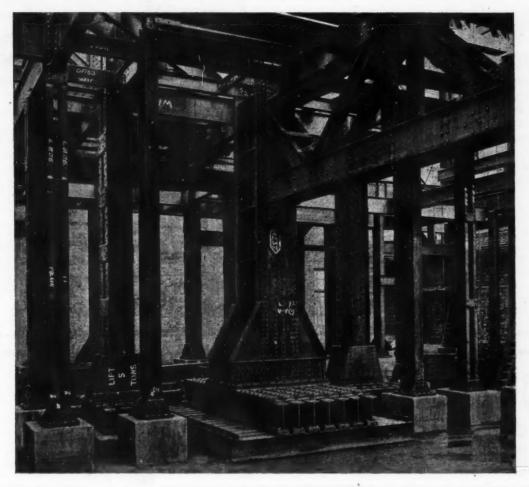
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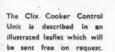
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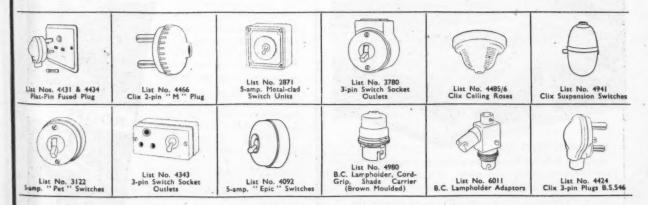
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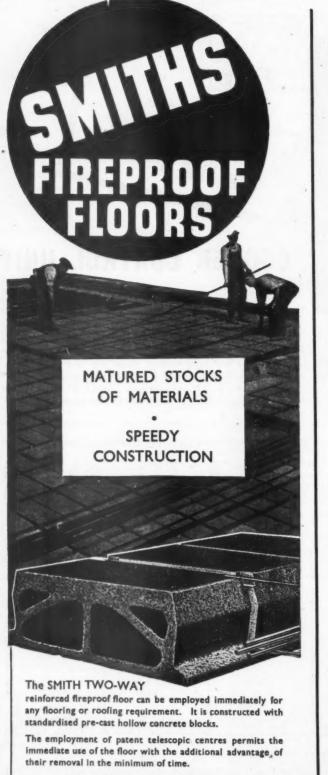
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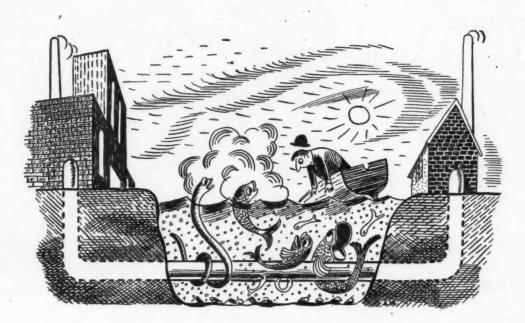
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THIS WOULDN'T HAPPEN TO YOU!

Of course not. But it did happen to someone ! And this is no isolated instance of the obvious being over-

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looked. We all have our blind spots, and however familiar we are with an installation or a process, we are liable to pass over bad or out-dated practices that a fresh pair of eyes would spot in a moment.

Wouldn't you be wise to ask the Ministry's Fuel Engineer to pay you a visit—just in case? Not only is he rich in practical experience, but he can look at the job from a fresh point of view.

By the way, have you referred to "The Efficient Use of Steam" by Oliver Lyle? It can be ordered through any bookseller (886 pp., 15/- nett), or obtained from H.M. Stationery Office, 15/9 post free.

Government Buildings, Ponteland Road, Newcastle-on-Tyne, 5	Newcastle 28131
Century House, South Parade, Leeds, 1	Leads 30611
Mount Pleasant School, Sharrow Lane, Sheffield	Sheffield 52461
Shaftesbury Road, Brooklands Avenue, Cambridge	Nottingham 46216 Cambridge 56268 Gerrard 9700
Forest Road, Hawkenbury, Tunbridge Wells, Kent	Tun. Wells 2780
27, Newport Road, Cardiff 12/14, Apsley Road, Clifton, Bristol, 8 Temporary Office Buildings, Hagley Road West, Birmingham, 17	Reading 61491 Cardiff 9234 Bristol 38223 Bearwood 3071
Burton Road, West Didsbury, Manchester, 20. 145, St. Vincent Street, Glasgow, C.2. 51, Cockburn Street, Edinburgh, 1 J. Oversate. Dundee	Didsbury 5180-4 Glasgow City 7636 Edinburgh 34881 Dundee 2179
m	 Mount Pleasant School, Sharrow Lane, Sheffield Castle Gate House, Castle Gate, Nottingham Shaftesbury Road, Brooklands Avenue, Cambridge Mill House, 87/89, Shaftesbury Avenue, W.1 Forest Road, Hawkenbury, Tunbridge Wells, Kent Whiteknights, Earley, Reading 27, Newport Road, Cardiff 12/14, Apsley Road, Clifton, Bristol, 8 Temporary Office Buildings, Hagley Road West, Birmingham, 17 Burton Road, West Didsbury, Manchester, 20 145, St. Vincent Street, Glasgow, C.2 51, Cockburn Street, Edinburgh, 1

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XXXVII

Furniture for Special Needs

Heal's Contracts Ltd. have recently supplied to the designs of British European Airways' architect, Mr. A. F. Watson, A.R.I.B.A., booking counters, booking control desks, settees and "perspex" indicator boards, for the corporation's new booking hall and control offices at Dorland Hall.

We are always pleased to work either to architects' own designs or to prepare original schemes in our design office. Why not consult us?

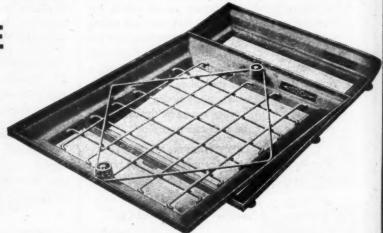


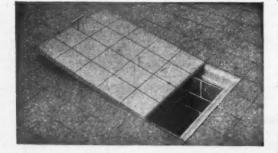
The Main Booking Hall of the British European Airways at Dorland Hall, Regent Street, W.1.— Architect A. F. Watson, A.R.I.B.A. The Main booking counter is 84 feet long and is of chestnut veneered plastic, with aluminium facings. The 60 feet long settee is covered in red hide. The "perspex" indicator boards have interchangeable name plaques and the table tops are covered in light blue heat resisting plastic material.

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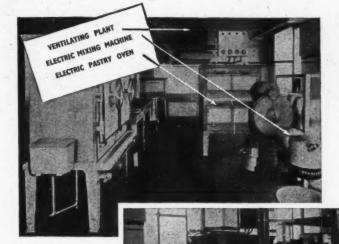
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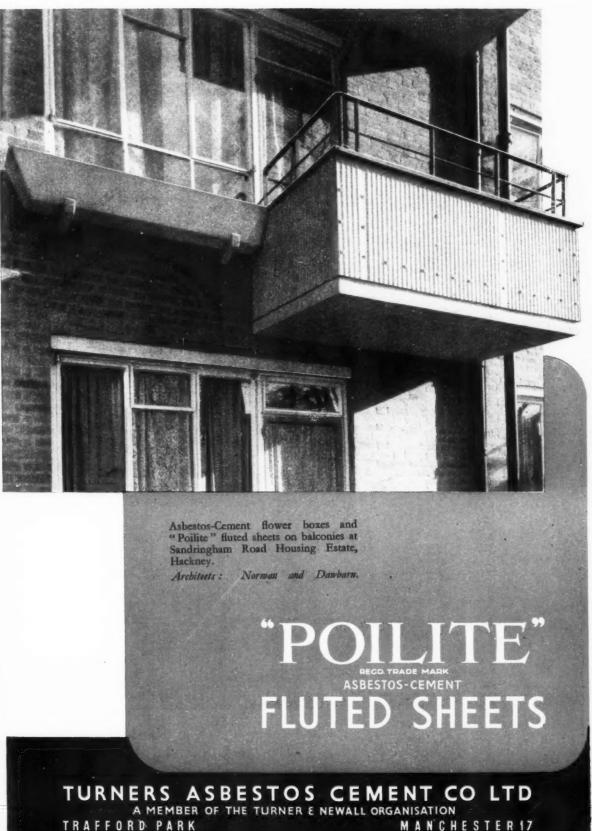
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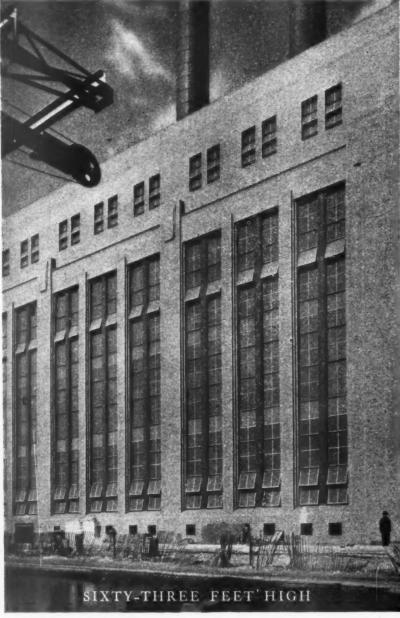






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THE ARCHITECTS' JOURNAL for March 3, 1949 [197

In common with every other periodical, this JOURNAL is rationed to a small part of its pre-war consumption of paper. Circulation is therefore temporarily restricted but would-be subscribers are advised to have their names put on the waiting-list. Their names will then



be added to the subscription list as soon as possible. Subscription rates : by post in the U.K. or abroad, £1 155. Od. per annum. Single copies, 9d. ; post free, 11d. Special numbers are included in subscription ; single copies, 15. 6d. ; post free, 15. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 175. 6d. each ; carriage 15. extra.

DIARY FOR MARCH APRIL AND MAY

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

COVENTRY. Allied Ironfounders' Exhibition Train. No. 16 Road in Goods Yards, Coventry Station. (Sponsor, Allied Ironfounders.) MARCH 7-12

L ONDON. A Course of Lectures on Timber. D. A. Hubbard. Modern Adhesives — Their Present and Future Application. March 10. B. A. Jay. New Woods for Old—Some Alternatives to Traditional Timbers. March 21. Lectures begin at 7.15 p.m. and will be held in the Fyvie Hall at the Polytechnic, Regent Street, W.1. (Sponsor, TDA.) MARCH 10-21

Exhibition of Drawings of Architectural Subjects, by Helm-Pirgo, at The Cromwell Gallery, 114a, Cromwell Road, S.W.7. (Sponsor, The Cromwell Gallery.) 10 a.m. to 5 p.m., Sat. 10 to 12 noon.

UNTIL MARCH 5 E. Prentice Mawson. Design of Parks and Public Gardens. At Caxton Hall, Westminster. (Sponsor, TPI.) 5.30 p.m. MARCH 3

R. C. White-Cooper. Italian Renaissance Architecture. In the Anatomy Theatre, Gower Street, W.C.1. (Sponsor, University College, London.) 1.15 p.m. MARCH 3 Sir Arnold Plant. Land Planning and the

Economic Functions of Ownership. At the Chartered Auctioneers' and Estate Agents' Institute, 29, Lincoln's Inn Fields, W.C.2. (Sponsor, Chartered Auctioneers' Institute.) 6 p.m. MARCH 3

Conference on Industrial Architecture. At the RIBA, 66, Portland Place, W.1. MARCH 3-4

Exhibition of Industrial Architecture. At the RIBA, 66, Portland Place, W.1. Weekdays 10 a.m.-7 p.m. Saturday 10 a.m.-5 p.m. MARCH 3-26

Civic Exhibition, showing all sections of the work undertaken by Hammersmith and the LCC, at the Town Hall, King Street, W.6. (Sponsor, The Borough of Hammersmith.) Weekdays, 10 a.m. to 9 p.m. MARCH 5-12

H. S. Goodhart-Rendel. Rogue Architects of the Victorian Era. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MARCH 8

M. J. Bony. Auguste Rodin. At the Courtauld Institute of Art, 20. Portman Square, London, W.1. (Sponsor, The Courtau'd Institu'e.) 5.30 p.m. MARCH 8 J. T. Phillips and F. J. Daniels. Welded Steel Framed Buildings. At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. (Sponsor, Institute of Welding and ISE.) 6 p.m. MARCH 10 A. G. Sutton, Ministry of Fuel and Power. The Thermal Insulation of Buildings. At Caxton Hall, Westminster, S.W.1. (Sponsor, ABT.) 7.0 p.m.

MARCH 10

Planning the New Nursery Schools—Exhibition. At the Nursery Schools Association, 1, Park Crescent, W.1. Weekdays 10 a.m.-5 p.m. Saturday 10 a.m.-12 noon.

UNTIL MARCH 12

Exhibition of Interior Design. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, LCC Central Schools of Art and Crafts.) UNTIL MARCH 19 Ideal Home Exhibition At Olympia

Ideal Home Exhibition. At Olympia. (Sponsor, The Daily Mail.) UNTIL MARCH 26

MANCHESTER. Georgian Architecture in Northern Ireland. Exhibition at the Municipal School of Art, All Saints, Manchester 15. Open during school hours. MARCH 4-18

NOTTINGHAM. Allied Ironfounders' Exhibition Train. No. 2 Bay Platform, Nottingham Station. (Sponsor, Allied Ironfounders.) UNTIL MARCH 5

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The Industry. By Brian Grant 217

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

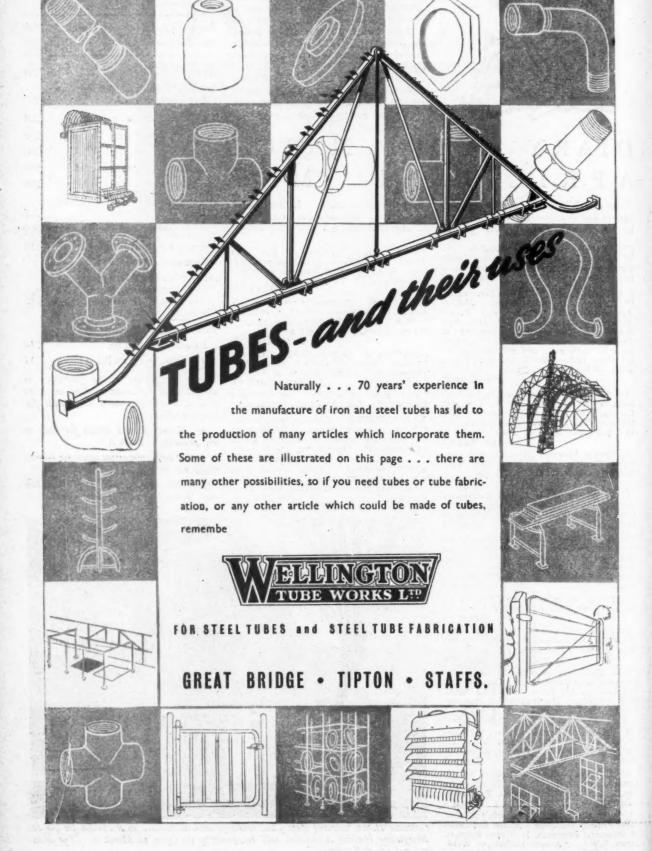
 \star means spare a second for this, it will probably be worth it.

★★ 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.



Cochrane House, working class j.a.s., nearing completion in St. Journ's Wood for the St. Marylebone Housing Association will be opened by the Queen on March 8. The architect is Louis de Soissons.



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From AN ARCHITECT'S Commonplace Book

THE WHITE HOUSE. [From The Conscious Stone, by Dudley Harbron (Latimer House, Ltd.).] None the less, the architectural example of the exquisite was still awaited, and this Whistler, Edward (Godwin) and his wife were nightly in conspiracy to create. Whistler had secured a site in Tite Street, adjoining the western boundary of Chelsea Hospital, and upon it he planned to build an ideal house. The building was to include a studio, a school for pupils, and a residence for the artist owner. The top floor was to hold a large studio forty-seven feet by thirty, a drawing-room studio thirty by twenty; five bedrooms, a dining-room and kitchen, and all the usual offices, completed the accommodation in the house. It was but small. The exterior was to be Edward's interpretation of modern architecture carried out in white brick capped by a green roof. Both Whistler and he were entranced in anticipation by the colour scheme. In architectural circles the building was rumoured to be "one of the surprises of next season." It was to be as plain as a pikestaff. Such relief or mouldings as were used were derived from Grecian precedents. The interior was to be as novel as the exterior, with mantelpieces that were to be distinct and entirely original varieties of that important feature. The stage was being set for an architectural revolution. There was not another architect in the world who could have satisfied Whistler.

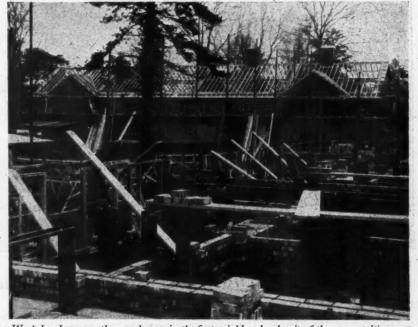
A Statement on LCC HOUSING has been issued. 15,226 temporary houses had been built in London since the war, 7,865 by the LOC and 7,361 by the Metropolitan borough councils. Other figures of homes provided by the council since the war were: repair of seriously damaged houses, 7,465; rebuild-ing of war-destroyed dwellings, 2,618; re-establishment of dwellings, 469; new per-manent houses, 5,649; and new flats, 4,146.

** To secure maximum efficiency in the use of steel A COMMITTEE OF PROFESSIONAL INSTITU-TIONS has been set up by the MOW The committee has the following terms of reference: "To organize, through profes-sional institutions, technical papers and dis-cussions on steel economy, with a view to exercising the economies to be derived from high performance specifications and more scientific methods of design; and to arrange publicity to give effect to these measures." On the committee, of which Dr. David Anderson will be chairman, there will be represented: The Royal Institute of British Architects, Institution of Civil Engineers, Institution of Structural Engineers, Institution of Mechanical Engineers, Institution of Municipal Engineers, Institute of Welding, Iron and Steel Institute, and British Iron and Steel Federation.

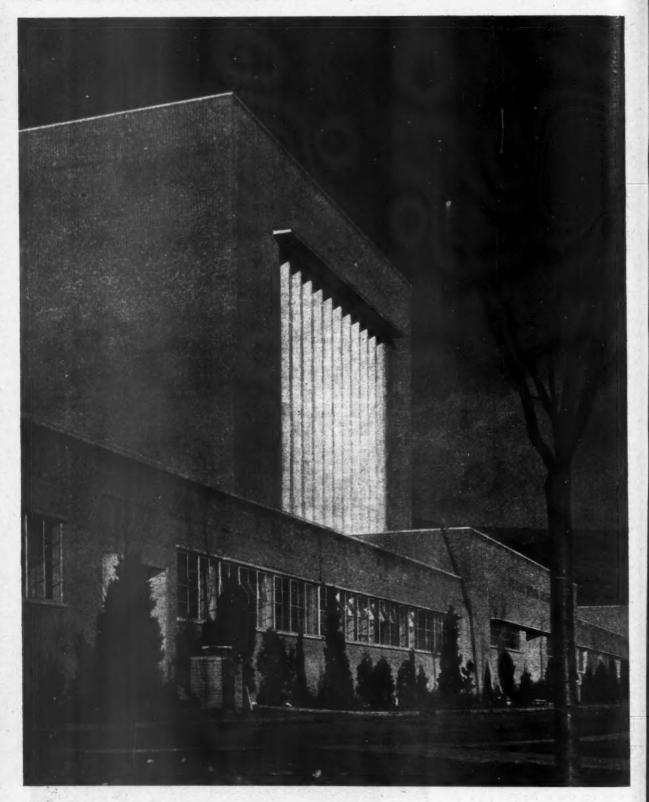
The West Middlesex Planning Committee have issued a planning report on the MIDDLESEX BANK OF THE THAMES. The planning of the Middlesex bank of the Thames is dealt with in a report of the West Thames is dealt with in a report of the West Middlesex Planning Committee. It states that, apart from boat building, the riverside industry is not increasing, and will probably decrease over a number of years. Redevelopment would improve the appear-ance of the remaining concentrations, and industry not tied to the river might with advantage be moved. Where the river banks were not built on they should re-main so, with provision made for develop-ment such as riverside cames. landing and ment, such as riverside camps, landing and mooring accommodation, and places of refreshment. Below Hampton Court Bridge improvements could be achieved only over a long period; upstream from the bridge there were several old riverside hamlets which had in between an almost continuous ribbon-type development, much

of it undesirable because of flood risk, lack of services, or shanty-like appearance. Re-commendations for the clearance of this area and the strict control of advertisements are made in the Report. In special cases appli-cations for development or redevelopment will be referred for consultation with the Royal Fine Art Commission. The four major considerations in planning the river were: risk of flood; its functions as a highway and a recreational asset; the preservation and improvement of the features which had made it a regional and national possession; and gradual clearance of unsatisfactory and preserved. unsightly development. In a detailed list of proposals it is stated that Chiswick Mall gardens should remain open in character and the question of public acquisition and the question of public acquisition should be borne in mind. The preserva-tion of Chiswick Eyot had been considered, the cost would be considerable and but render such work impracticable at present. The area between the High Street and Brentford Docks could be regarded as suitable for general industry, with preference given to undertakings tied to the river. Syon Park, the private residence of the

Duke of Northumberland, formed a valuable buffer between the industry at Brent-ford and Isleworth, and was such an outstanding and historic example of a Thamesstanding and historic example of a Inames-side mansion in its typical setting that the committee felt it to be essential that ultimately it should be acquired as a public open space. The open nature of the frontage of the embankment at Twicken-ham must be preserved and a strict build-ing line maintained. The importance of the precedent to Hometon Court Palea the approaches to Hampton Court Palace called for close architectural control and control of advertisements on either side of the Green fronting Hampton Court Road, Ash Island should be preserved as an amenity, and its appearance might be improved by the introduction of Lombardy Improved by the introduction of Lonnardy poplars. Sunbury-on-Thames provided the first stretches of the river where re-development and clearance could make possible large-scale improvements on the banks. The river frontage at Lower Hampton Road, Sunbury, and the riverside north of Walton Bridge could be treated under both short- and long-term clearance schemes. schemes.



Work has begun on the 200 houses in the first neighbourhood unit of the new satellize town of Crawley, Sussex. The master plan for the town was drawn up by Anthony Minoprio. The houses shown above in the course of construction were designed by A. G. Sheppard Fidler, Chief Architect to the Crawley Development Corporation.



At The Industrial Architecture Exhibition

Today, the conference and exhibition on industrial architecture opens at the RIBA. The exhibition stresses the essentials of co-ordination between the industrialist, the architect and the various specialists, and shows buildings from the small factory to the trading estate. Among the buildings shown in the factory building section is the main plant of the Pontypool factory of British Nylon Spinners, Ltd. (see above), designed by Sir Percy Thomas and Son. The conference closes tomorrow, but the exhibition will be open until March 26. Architectural Review photograph. *SAA Biticho m cc 25 m to

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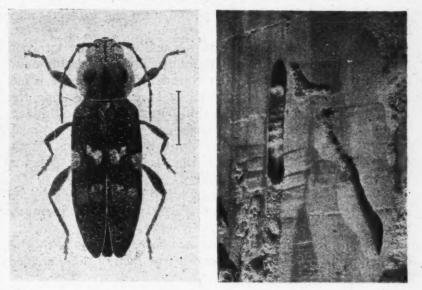
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THE ARCHITECTS' JOURNAL for March 3, 1949 [201



DEADLY BEETLE ATTACKS BRITISH TIMBER

R EPORTS of greater activity and extensive damage by the House Longhorn Beetle (illustrated above*) are dis-

closed by a recent press notice from the Department of Scientific and Industrial Research. Most beetle attack in this country is of three types, from the well-known Death Watch Beetle and the fairly common Furniture Beetle and the Powder Post Beetle (Lyctus). Reference books usually refer to the House Longhorn Beetle as being a type that is rarely found. If these reports, therefore, are accurate, it is a serious matter. Should this beetle become firmly established it would be extremely difficult, if not impossible, to eradicate it, as has been found in the Baltic countries, notably North Germany, Denmark, and Sweden.

It is most important, therefore, that any suspected attack should be dealt with promptly and effectively, and that information of the attack should be sent to the proper authorities in order that they may be able to judge whether the danger is growing in extent. Such information should be sent to the Entomology Section, Forest Products Research Laboratory, Princes Risborough, Bucks ('Phone : Princes Risborough 101). A leaflet, describing the House Longhorn Beetle and its grub, and the type of damage it causes, can be obtained free.

For immediate reference, we give some of the essential facts. Appearance : The beetle is from $\frac{3}{8}$ inch to 1 inch long. It is brown or black in colour, with grey hairs. The grubs are fleshy and white, and about 1 inch long. Eggs are white, spindle shaped, and $\frac{1}{12}$ inch long.

Life Cycle: Young larvæ emerge from the eggs in 10 to 14 days and commence boring. They may feed for several years and then change to beetles which emerge from the wood in

The photographs are Crown Copyright, and reproduced by permission of the Director, Forest Products Research Laboratory.

MENDATIONS issued by the MOW Steel Economy Committee. Building Rules and Regulations: The adop-tion is recommended of the new design specifications for steel and reinforced concrete both for work done by Government Departments and by manufacturing industries. All construction involving the use of more than 25 tons of steel and licensed by the MOW must comply with the new BSS 449 relating to Structural Steel (which increases the basic permissible stress from 8 to 9 tons per square inch and the flexual stress to 10 tons per square inch), and the Codes of Practice 113 and f14 relating respectively to Structural Steel and Reinforced Concrete, or an accept-able explanation given why this has not been done. MOH have informed Local Authorities of the revised standard and have asked ties of the revised standard and have asked them to adopt it as their present guide in administering bye-laws. It is agreed that existing stocks of steel ordered to the old BS15 may be used with safety under the new BS449. Welding: Welding is of great importance as a method of economising in steel usage, and the following percentage weight economies are examples of the sav-ings which have been made where welding ings which have been made where welding ings which have been made where welding has been used. Structural steelwork: Steel frame buildings, 14/16 per cent.; small and medium span plate, 15/25 per cent.; plate girders, crane girders, built up columns, roof structures and lattice girders, 15/20 per cent. There is considerable scope for the extended use of welding, and it does stimulate more crientific methods of structured desire. High scientific methods of structural design. High Tensile Siructural Steels: The development of high tensile structural steels has been the subject of a great deal of research. The persubject of a great deal of research. The per-missible working stress for high tensile steels of 13¹/₂ or 15 tons per square inch as against 10 tons to the square inch for mild steel reflects the theoretical saving in steel in structural steelwork. In practice the saving waries between 15 and 25 per cent. There is also an appreciable saving in cost of steel. Cold Formed Steel Sections: Cold formed steel romed Steel Sections: Cold formed steel fall into two main categories: (a) cold formed sections for use in many branches of manufacturing industry, and (b) cold formed sections for general building con-struction. Further development of (a) is important from a steel economy point of view. Development of (b) will be impor-tant in building up a new expert trade in building and housing components. Use of building and housing components. Use of building and nousing components. Use of cold formed steel sections results in steel economies of from 30 to 50 per cent. over the heavier hot rolled sections. To furnish evidence of the value of these new products, the MOW is initiating suitable prototype work in connection with beams and rafters and anot trustee for building constrained and roof trusses for building constructions using cold formed steel sections. The actual erection work will be carried out by the building industry itself under the supervision of the MOW.

STEEL ECONOMY RECOM-

The LCC SECOND OPEN-AIR SCULPTURE EXHIBITION

is to be held in 1951. The LOC has decided to hold its second open-air sculpture exhibition in 1951 as part of the Festival of Britain, and not next year, as was originally planned. A "working party" has again been set up to advise the council on arrangements. Its membership is the same as the last one, except in the section representing sculptors, where a change has been made " to widen the range of contribution and to avoid any suggestion that the exhibitions are being managed by too limited a circle." Mr. Frank Dobson, Mr. Henry Moore, and Mr. Charles Wheeler give way to Mr. Jacob Epstein, Miss Barbara Hepworth, and Mr. Gilbert Ledward.

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Son. ill be202] THE ARCHITECTS' JOURNAL for March 3, 1949

June, July, and August. The period from egg to beetle may be from 3 to 11 years.

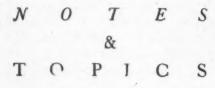
Attacks : Seasoned softwood only, usually only the sapwood and especially timber in warm positions, such as near chimneys, though roof timbers also suffer considerably. Damage is not always easily noticed for the larvæ bore tunnels along the grain of the wood and leave a thin outer skin of wood intact. Testing by probing with a knife can reveal the damage. Sometimes the noise of beetles biting their way out can be heard. The beetles can perforate lead or other roofing materials in their efforts to emerge.

Treatment: The usual treatments are the removal of infected timber, treatment with an insecticide and sterilization of timber by dry heat.

In applying for information about a suspected attack by this beetle it is usually helpful to send a specimen of the damaged timber.



The Architects' Journal 9, 11 and 13, Queen Anne's Gate, Westmanster S.W.1 Phone : Whitehall 0611



NEWER SARUM*

Under the above title, Thomas Sharp presents this week his proposals for preserving one of the most interesting of English country towns and at the same time making it possible to move through its streets on market days. By a process almost amounting to sleight of hand, Mr. Sharp demonstrates how Salisbury's streets, which appear to the visitor to be a confused jumble of impossibly narrow alleys, can by a few deft nicks here and there and one bold slash become a smoothly operating town centre.

As might be imagined, the planner has many ideas for dealing with detailed problems. As an example, his

* NEWER ARUM, a plan for Salisbury by Thomas Sharp. The Architectural Press 10s.

proposals for dealing with the Old Mill, of which he says, "That building's use as an electricity station is not only incongruous, it is an untidy nuisance as well, since it involves turning that part of the riverside into a coal dump." He proposes that this pleasant old building should be used as a library and museum, where, spanning the river at the very centre of the city, it would reflect the past and stimulate the future. The reclamation of the river, at present well-nigh invisible, with wide stretches of open space on either side, will not only arouse enthusiastic comment from the transatlantic visitor, but will provide a valuable amenity for the townspeople.

One of the remarkable things about Salisbury, which it shares with Canterbury, is the large number of pleasant buildings of every period cheerfully jostling each other and giving both these cities their indefinable character. Mr. Sharp argues from this that to put contemporary buildings where new ones are required would, in fact, be to continue the Salisbury tradition, rather than any attempt to build milk and water versions of the old. I do not, however, agree with his strictures on the south side of the market place; true, none of the buildings have " architectural merit," but the whole effect is homely and infinitely preferable to the possible alternative, which, it is to be feared, might be something like "The Headrow" at Leeds.

DESIGN AND STYLE

The newly-qualified architect's prob-

lem in making known his name to possible clients is always a difficult one. I remember a fellow-student — an American called Bailey—solved it by the simple method of distributing his photograph which was peremptorily inscribed "Hire That Man Bailey."

Less succinct, but more insidiously informative, is a pamphlet I have received from Design & Style, Ltd., an industrial design outfit whose members are clearly unhampered by RIBA rules. This has been written by a girl called Phœbe Douglas, who can turn a phrase as well as the next man, and from it I learn that the chief designer is Walter Duschinsky. "who has studied mechanical science in Prague, Brno, Zurich and Vienna, hydraulics under Professor Kaplan, and aeronautics under Mittelholzer." (" The conditions of both a mobile and quiescent life," says Phoebe, " have always intrigued Walter Duschinsky.") .

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Head ad-man is Nigel Bruce, who served in Burma during the war and " studied the publicity requirements of Far East markets. . . . Only an artist with broad conceptions and vivid imagination," enthuses Phœbe, " can educate a public used to the ornate and second-class." Head of research is Doctor Adlington, " who developed the product known as Glo-crack as well as a method of fireproofing tarpaulins, and a system for detecting forged totetickets." Managing director and financier is A. E. G. Baring, "who will ensure that only the cream of British workmanship, dynamically restyled to conform to the needs of modern life, shall represent our trade in foreign markets."

Speaking as a member of the public used to the ornate and second-class (*The Architectural Review*, remember, is classed by the postal authorities as second-class matter, and goodness knows it's pretty ornate, too), I am impressed. Good luck to all you distinguished gentlemen and your educative mission. What a pity that among all your combined accomplishments is not included a faint sense of the ridiculous.

RESEARCH RUN RIOT

I have often thought that no age can match our own for the variety of opportunity it offers to persons of every con-



The south side of Salisbury market place-criticized by Thomas Sharp in his book "Newer Sarum" published this week by The Architectural Press. See Astragal's note.

choice of career confined to the Church. the State, the Services or Trade.

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If John does not want to be a soldier, he can become a military correspondent; if Henry does not wish to make screws. he can become an export consultant; if Mary doesn't want to be bothered with a family, she can investigate family structure in relation to its economic background. Good luck to them. As a columnist myself, I can do nothing but wish them well. There are times, however, when even a columnist feels the steam bubbling in his gauges. Look, for instance, at a recent item in the Observer. . . . " London and Birmingham universities," said the report, " are trying to evolve a scientific plan for the care of the average house."

Professor Solly Zuckerman, who is in charge of research, will use a specially designed apparatus which will be fitted over a woman's shoulder to measure strain on lungs and heart while she is working. He is also studying the average woman's measurements in relation to furniture and kitchen equipment. "When the results of the inquiry are published, it is hoped to tell the housewife when and how frequently she requires rest-breaks, how she should organize a day's work, and to describe the minimum equipment needed."

ceivable personal interest. No longer is · With all respect to Professor Zuckerman, his associated team of researchers and to the two universities who are paying for the inquiry, I suggest that the project seems to fulfil a long-felt nonwant. If there is one thing which renders a housewife fatigued, it is having a specially-designed apparatus fitted over her shoulder. If there is one thing upon which enough facts have already been collected, it is upon the height of the kitchen sink. If there's one thing a housewife knows without the help of a professor it is how often she needs a rest-break. What she also knows far better than any professor is that, if she has any young children, it's quite impossible to take one, however scientifically organized the day's programme.

MORE LIGHT

The sign manufacturers have started pleading for a few outdoor signs. What sort of an answer they'll get from Fuel and Power I don't know, but a little restrained gaiety would be no bad thing. Most of us, I think, have forgotten how bright the streets used to be, mainly because shops and signs were doing about half the local authority's job for them. By day, of course, the fixing brackets, wiring and writing tubes make a rather fearful mess of the elevations, but by night I find them fun, though I still feel (with G. K. Chesterton) that they'd be much nicer if only one couldn't read.

ASTRAGAL

LETTERS

John Murray Easton, F.R.I.B.A.

Unfair to Cambridge, Eng.

SIR,—Nothing could be neater or more intriguing than your publication, in the same issue, of the 1936 Gropius-Fry scheme for Christ's, Cambridge, Eng., and the 1949 Gropius and "Collaborative" project for Harvard, Cambridge, USA. Your caption writer is wrong, however, in saying that the 1936 design had not hitherto been published. It is to be found complete with plans, elevations and perspective draw-ing in the AJ of February, 1938. I men-tion this not to score a trivial point but because I was then and am still interested in the circumstances that caused that design to the circumstances that caused that design to be called for and rejected. I hope that enough time has elapsed to enable it to be discussed, without offence, in that spirit of speculation that historians in their lighter moments apply to such questions as "What would have happened if William had not been the Conqueror in 1066?"

In good round terms your commentator lets the older universities have it for having, like others, failed to offer those distinguished migrants (who, in the middle thirties, paused here a little before making their final flight to America) more inducement to remain. That other and more progressive Cambridge is by contrast patted on the back and may be expected to purr with satisfaction. But what about the time factor! What was Harvard doing in 1936? There was Frank Lloyd Wright on its doorstep, so to speak, with as many "a sequence of surprise effects in space" up his sleeve as anyone could wish. I do not think he was invited even to prepare designs for anything at Harvard let alone carry them out. In good round terms your commentator lets

to prepare designs for anything at Harvard let alone carry them out. As late as 1940 the New York Museum of Modern Art published a very comprehensive guide to buildings of modern type executed in the NE States of the USA. No reference is made to Harvard, except perhaps in-directly under the heading of buildings *noi* included, to wit, "Pseudo-Gothic colleges, Colonialoid high-schools, etc." By that time Cambridge, Eng., had at least got as far as inviting Gropius-Fry to design a building and had, in fact, permitted the erecfar as inviting Gropius-Fry to design a building and had, in fact, permitted the erec-tion of a number of buildings which, if not conscientiously "Bauhaus," were neither Italianate nor. Pseudo-Gothic and aimed at doing and expressing their job. But the really interesting question is— what effect did the Gropius-Fry scheme for Christ's have in furthering or otherwise the cause of modern architecture in the uni-

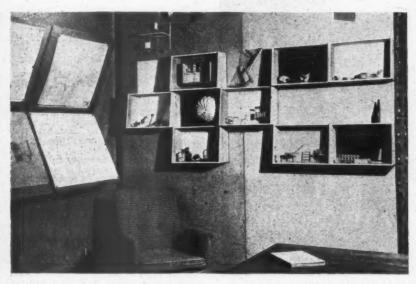
cause of modern architecture in the uni-versities? I have always understood that three architects were invited to submit designs for the new buildings for Christ's. The selection, no doubt, represented left and right wing architectural tendencies among the Fellows and obviously there was a dead. the Fellows, and obviously there was a deadlock.

lock. Does your commentator know that the G-F design was rejected because of its "too frank modernity" or did he just guess? Of two equally "modern" (horrible word) designs one may like this and dislike that. Is the Gropius design for Harvard less modern because it is sedate, almost academic in tempo, and has far more wall and less glass? Might something like this not have been better strategy? better strategy?

All the older colleges have their high spots —chapel, court, or lib-ary—that are the pride of the members. They do not want a newcomer to steal the party. He is expected, not unreasonably, to be a little self-effacing. "Let the new universities have the new bril-

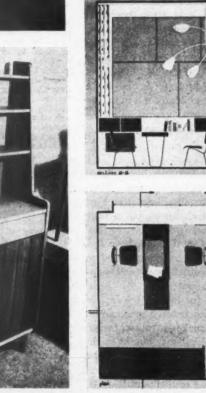
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EXHIBITION OF INTERIOR DESIGN





The work of the students of the Dept. of Interior Design, LCC Central School of Arts and Crafts is being exhibited at the Building Centre, London. The exhibition includes drawings and pieces of furniture made in the Department under the direction of D. F. Levensold. The exhibition remains open until March 19. Top: One of the divplay panels in the exhibition. Centre: Furniture constructed by the students. Below, left: Bookcase designed by Mr. Anstruther. Right: A study for the principal of an art school. Part of a design by R. G. Mabon.



liance (they might say), we have something they cannot have." That small atomic bomb dropped on Christ's College in 1936 seems to have given off radio-active emanations that persist and still seem powerful enough to inhibit organic growth.

This letter has nothing to do with the abstract merits or demerits of the projects discussed. It is purely a considération of time and place and of the human element that must condition architectural practice until such time as an impersonal state tells people what they must have. London JOHN MURRAY EASTON

[Mr. Easton most effectively puts the story into its proper historical perspective, and is quite right to point out that in 1936 American universities were being no more enlightened architecturally than English universities. It was definitely, we are informed, the modernity of the Gropius-Fry designs that caused their rejection by Christs Colkge, but we agree that simply to use the term "modern" over-simplifies the issue, which should not be one of style but of architectural quality. The two general assertions made by the JOURNAL'S commentator, however, still remain valid: that the English universities tend to be too timid about the arts, and that Britain made too little use of Gropius's talents and experience while he

In Parliament

in this country .- EDITOR.]

was

Mr. Francis Noel-Baker (Lab., Brentford and Chiswick) asked the Lord President of the Council, at question time in the House of Commons, whether he had instructed the officials preparing plans for the Festival of Britain to consider proposals put forward by the Architectural Review, for a London pier on the south bank of the River Thames. Mr. Herbert Morrison said the Festival of Britain South Bank Exhibition would include probably two piers for the use of passengers by water, and there would be permanent restaurants and other facilities provided by the LCC on the river front. "I do not think we can envisage anything beyond this in present circumstances," he observed.

Mr. Francis Noel-Baker then suggested that Mr. Morrison should ask the authorities planning the Festival of Britain to consider proposals for making Chiswick House and its grounds one of the centres of the festival in the Great London Area. Mr. Morrison replied: The Festival of

Mr. Morrison replied: The Festival of Britain have had submitted to them proposals for using Chiswick House in connection with the Festival, but I now understand from the Minister of Works, that very extensive repair work is involved and there seems to be very little chance that it would be possible to complete it in time.

The Minister of Education was asked by Mr. Kenneth Lindsay (Ind., English Universities) what steps he had taken to introduce new methods of building and new types of structure in State school architecture, in order to cheapen costs and increase production.

Mr. George Tomlinson replied: "I have circulated to all local education authorities, and recommended to their attention, the Report of the Technical Working Party which deals with forms of prefabricated construction for schools, and various new types of structure are now being used in a large number of projects. "I have also set up a development group

"I have also set up a development group in my Chief Architect's department to study, and advise local education authorities on, the practical application of the new principles, and to co-ordinate the efforts of manufacturers. I am trying to plan the building programme as far ahead as possible so that the full economies of prefabrication can be secured."





From the south-east.

HOSPITAL IN MALTA BY ADAMS, HOLDEN

GENERAL.—This building, the King George V Hospital at Floriana, Malta, replaces an old hospital which was completely destroyed by enemy action in 1941. The new buildings are to be a memorial to merchant seamen, and are also to provide accommodation for merchant seamen visiting the island. The hospital is for the wives and families of service personnel serving in Malta, and also for any other paying patients.

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The clients required a separate Nurses' Home.

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SITE.—The building was restricted to two storeys so as not to obstruct the views of the harbour from the road above the hospital site. All main wards and nurses' bedrooms have an uninterrupted view of the harbour and the Mediterranean beyond.

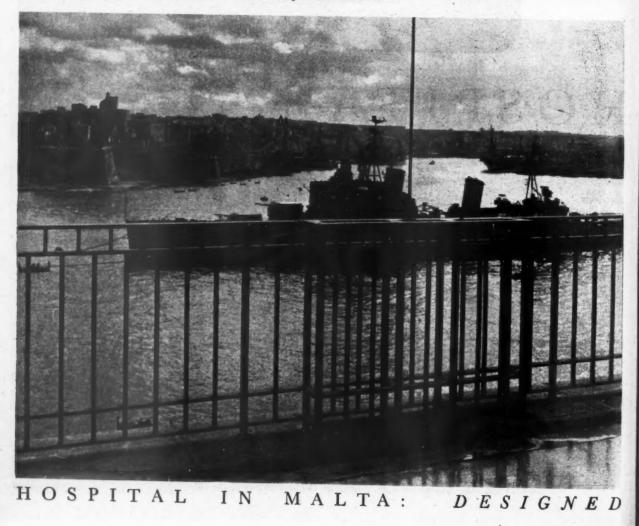
PLAN.—The plan form was dictated by the foundations of the old hospital which, for reasons of economy, were re-used wherever possible. The site of the old hospital was on made-up ground retained by a bastion wall. The old foundations are on rock, which, at the front of the site, is 20 ft. deep. Access to the site is from the west only.

PEARSON

CONSTRUCTION.—The external walls are of solid limestone 2 ft. (Continued on page 208)



Above, the hospital from the harbour ; below, i.e v.ew from the bulcon.es.

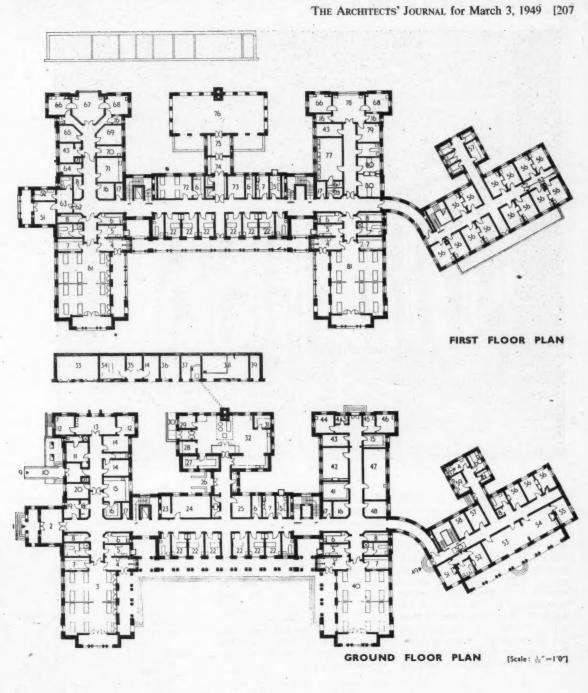


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- 1. Main Entrance. 2. Entrance Hall.
- 3. Men's Ward (12 beds).
- 4. Lavatory
- 5. Stuice
- 6. Ward Kitchen
- 7 Duty Room.
- 8. Linen.
- 9. Outpatients' Entrance
- 10. Stretcher Ramp.
- II. Medical Superintendent
- 12. Examination 13. Consulting
- 14. Waiting.
- 15 Dispensary
- 16 Store

D

33. Garage 34. Post Mortem. 35. Viewing.

17. Patients' Clothes

18. Telephone.

19. Porter

24. X-Ray

20. Secretary 21. Soiled Linen Chute

22. I Bed Ward

23 Dark Room.

25 Maltese Staff Dining

26. Staff Entrance.

29. Housekeeper.

32. Main Kitchen

28. Veg. Preparation

30. Goods Entrance.

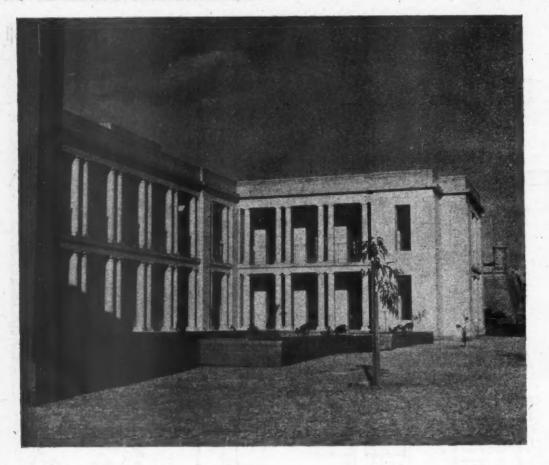
. 27. Dry Goods

31. Larder.

- 36. Fuel Store : Oil
- 37 Incinerator
- 38. Boiler House.
- 39. Coal.
- 40. Women's Ward (12 beds).
- 41. Library.
- 42. Chapel
- 43. Sister
- 44. Isolation.
- 45. V.D. Consulting.
- 46. V.D. Examination
- 47. Rehabilitation.
- 48. Matron's Office.

- 49. Nurses' Entrance 50. Matron's Flat. SI. Sitting Room.
- 52. Bedroom.
- 53. Dining Room.
- 54. Recreation Room.
- 55. Quiet Room.
- 56. Nurse's Bedroom.
- 57. Pantry. 58. Changing and Rest Room
- 59. Shampoo Room.
- 60. Cleaners.
- 61. Surgical Ward (Men). 62. R.M.O's. Flat
- 63. Hall
- 64. Staff.
- 65. Anæsthetic Room.

- 66. Sink Room. 67. Operating Room.
- 68, Sterilizing Room.
- 69. Surgeon's Room
- 70. Changing Room.
- 71. Clinical Laboratory.
- 72. Children's Ward
- 73. Visitor's Room 74. Sewing Room
- 75. Laundry 76. Covered Airing Space
- 77. Nursery
- 78. Labour Room. 79. Ante-Natal Room.
- 80. I Bed-Maternity
- 81. Maternity Ward
- 82 Night Nurses
- BY ADAMS, HOLDEN & PEARSON



thick, internal walls 1 ft. thick. The roofs are of R.S.J.'s at approximately 3 ft. centres spanned with 3-in. limestone slabs, covered with lime concrete laid to falls. The surface is finished with a local technique of fine pottery chippings run in milk of lime and ironed smooth. The floors are of similar construction to the roof but are finished with terrazzo tiles. A good supply of steel was salvaged from the old buildings, so it was therefore considered more economical to adopt the traditional method of roof construction than to send British specialists to train the Maltese in R.C. work.

COST.—This worked out at 3s. 84d. per foot cube for the hospital and 3s. 7d. per foot cube for the nurses' home. Cost per foot square: £3 9s. 0d. and £3 6s. 6d., respectively.

The general contractors were John Laing & Sons, Ltd. and N. Zammit & Son, Malta. For list of subcontractors see page 218.



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MALTA

Above, from the south west; below, the entrance front.

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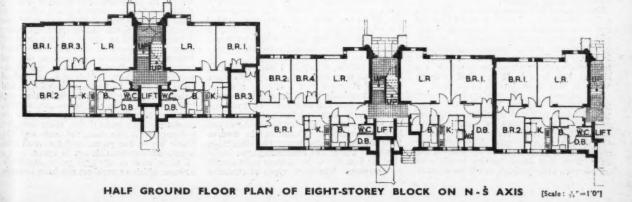
OSPITAL

Rig Ho fro Right, the south corn'r of Needwood House. Below, the main entrance front, taken from the south-east.



FLATS AT STOKE NEWINGTON BY LCC HOUSING ARCHITECTS

Needwood House is one of four eight-storey blocks being erected on the Woodberry Down Housing Estate, Stoke Newington. The blocks were originally designed as steel-framed brick-faced buildings, but are now being erected in monolithic concrete. The estate will eventually provide accommodation for 1,765 families in eight and five-storey blocks of flats, three-storey blocks with maisonnettes on ground and first floors, two-storey blocks mainly intended for old people, and two-storey houses. Work began on the whole site in August, 1946, and at the end of January, 1949, 220 flats had been completed. Development of the estate is by the LCC Director of Housing and Valuer, Mr. C. H. Walker. Plans are based on layout and type plans prepared by the council's former architect, Mr. J. H. Forshaw. The contractors for the eightstorey blocks are Messrs. Holland, Hannen & Cubitts. Ltd.





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.

RIBA

Samuely Felix

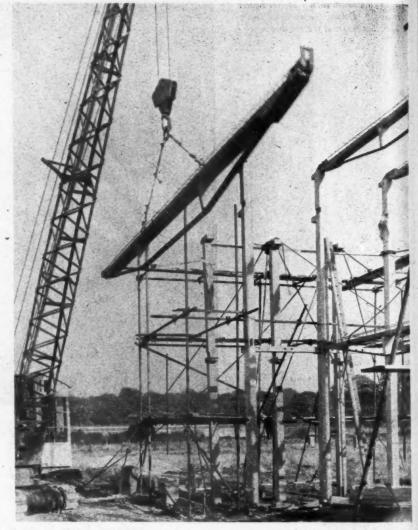
February 15. At the RIBA, 66 Portland Place, London. Talk given by Felix J. Samuely on FORCE AND FORM, THE ÆSTHETICS OF STRESS DISTRIBU-TION.

Felix Samuely : It is a great honour for me to be allowed to speak to this audience, and I have collected sufficient courage to do so I have concerned sumicent courage to do so only because this is a theme in which I am extremely interested, and by cause for the last ten years, on and off, I have been trying to collect data on it, and have found that certain very interesting conclusions can be formed about how stress is expressed architecturally.

In the first instance, what interested me was In the first instance, what interested me was the question: in what circumstances is one justified in showing the stresses, and, if we intend to show the stresses, or chall I say the structure, clearly, how can that be done? How can an observer who looks at a building be informed that there are stresses in the building without it being too obvious, without going to the extent of marking the stresses on the structure itself, which obviously is not possible? Before going into these questions, there are

Before going into these questions, there are a few remarks that I want to make in order not to be misunderstood. I have no intention of talking about functionalism or antifunctionalism; that is entirely outside my lecture. All that interests me is this: if someone wants to show the structure, the

someone wants to show the structure, the stresses, how is he to do it, and if someone wants to hide them, how is he do that? I am interested in this problem for another reason also. During the Middle Ages, certain forms apprared which were dictated, or at any rate influenced, by structural con-siderations. It took several hundred years for such a form to take shape after the materials, the labour, and so on, reached the stage when that shape became possible or useful; even after people's minds were ready



Ease of handling and freedom from breakages are two of the most important requirements base of handling and preason from break ges are two of the most important requirements of pre-cast construction. These beams, the upper member being concrete, the lower steel, possess these qualities to a remarkable degree. To facilitate lifting, special hooks have been cast in the upper member which are later concealed in the floor slab. The beams have been designed by Felix Samuely for the new Hatfield Technical College, architects: J. Murray Easton and Howard Robertson. The potential æsthetic qualities, apart from the technical aspect, of this type of structure is discussed by Mr. Samuely on these pages.

to accept a certain shape, it took quite a time to form it. That did not matter, because changes did not take place quickly,

and what was right in the year A.D. 1100 was almost right in the year 1200. Things are very different today. There are certain techniques today which make it pos-sible to do a certain kind of architecture. Such a technique, however, is useful only for, let us say, twen'y to forty years, and if the architect does not catch up with what is

the architect does not catch up with what is happening, and does not use that technique for his shapes in the early stages, he may never come to do so at all. In this lecture, therefore, I want to explain first of all that there are actually only three types of structure, and I want to speak of the basic attitude which the architect might have to stresses and structure. That will not take me very long, and I shall then come to the main part of my talk, and show you how the stresses in a beam can be used to form the shape of the beam. The same thing form the shape of the beam. The same thing applies to arches and other structures. Let me first deal with the three main shapes

The three types of structure of structures.

are (i) beams and columns, (ii) arches and frames, and (iii) vaults and domes. The arch is a construction which, so to speak, combines the column with the beam. It is in a plane, and an arch, as you all know, is essentially a compressive member, formed to a line of thrust dictated by the formed to a line of thrust dictated by the loads. As the loads vary, bending is intro-duced, and still more bending occurs in rigid frames. With regard to vault con-struction, there are two shapes: the cylin-drical vault and the dome. These forms of construction are old, but they have been reborn in reinforced concrete in the last water water Einstly there is the much reborn in reinforced concrete in the last twenty years. Finally, there is the mush-room construction, which can be derived from the vault, as the vault gets flatter and flatter. I prefer to regard it in that way rather than as a type of beam construction, because it is in space. I should like to emphasize that point: the beam and the column are in the line, the arch and the frame are in the plane, and the vault and mushroom construction are in space. Leone now to my next point.

I come now to my next point, the basic attitude which an architect can have towards an a may detra mdes is of to m to de it, 20 8 struc of d and sity The be th is re is no ture, the s sort behin be, 4 rease invo hund build struc on 1 Let sizin Rom are emp struc SEE tural creat give Goti exag struc

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these structures. I want to say at once that an architect may show the structure, or he may exaggerate the structure. All three atti-udes are well known in history; but there is one interesting point which I should like to make here. If today the architect wants to detract from a structure, he usually hides it, but if three or four hundred years ago an architect wanted to detract from the structure, he had an entirely different means of doing so. He knew that certain lines and curves would do that, without the neces-sity of hiding the structure.

and curves would do that, without the neces-sity of hidding the structure. There is food for thought there. It may be that something which I mentioned earlier is responsible for this, namely that there is not enough knowledge about the strucme, how to show it, how to hide it and how to detract from it; and so today, if the structure does not seem to be the right nort of thing to show, it is just hidden away port of thing to show, it is just hidden away behind a false ceiling or walling. It may be, on the other hand, that there is another reason, namely that we have much more involved buildings today than we had two hundred years ago, and these involved buildings do not allow the showing of structure so much. I keep an open mind on that point; I merely want to mention it

Let me give you a few examples of empha-ring the structure. You all know the Roman arch with columns in front which are not really used. This is a case of emphasizing the structure. They put a structure in front of you so that you can see it clearly. It is not necessary struc-urally, but the actual structure does not create a sufficiently clear impression. To give another instance, very often, in early Gothic, the structure lines are so over-craggerated that you cannot but think of structure all the time, and sometimes not even of the right structure.



The Doges' Palace, Venice.

The Palace of the Doges in Venice (Slide I) is possibly the most "correct-structured" building that has ever been built. I know that that has not always been recognized, and sometimes people have cons.dered it almost Baroque; but that is not so. The Doges' Palace has a great wall on top, a heavy load. It is a Gothic building, and, being a Gothic building, it has Gothic arches. I do not want to go into the ques-tion of whether a Gothic arch is the right thing for given loads, or whether it has been brought about by purely abstract movements of the mind; the point is that a Gothic structure is not suited for carrying a uniformly distributed load, and so in this a uniformly-distributed load, and so in this case the actual load is sitting on small arches, and these Roman arches provide point loads, which is the correct thing for Cothing arches archive arches a Gothic arch. These point loads sit on mall Gothic arches, which provide another number of point loads which sit partly on piers and partly in the middle between piers of bigger Gothic arches. If somebody were asked to show the best way of bringing a heavy, uniformly-distributed load of this kind on to Gothic arches, this would be the most correct way. While I believe that whoever was responsible for the structure

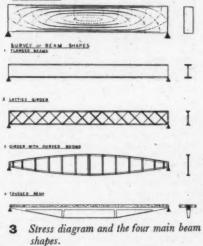


Rochester Cathedral.

never thought of it, but did it by a sort of intuition, the fact remains that his in-tuition led him to do something which is very correct.

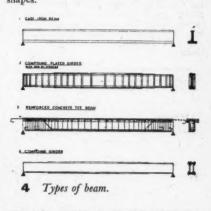
I come now to the possibility of hiding the structure. I have already said that in the Middle Ages they knew how to detract the Middle Ages they knew how to detract from the structure without hiding it. Slide 2 is an example of this from Rochester Cathedral, but you find the same technique in Norman churches generally. The columns are sitting on round Norman arches, which is definitely incorrect, but in that way the eye is somewhat distracted from the actual working of the stresses. A very subtle way of doing it is to show an incision into the outline of arches. Strictly speaking, if an arch is showing the line of stress, the last thing which should be allowed is any if an arch is showing the line of stress, the last thing which should be allowed is any incision in the line, which should be con-tinuous. I shall show you later how that was dealt with in late Gothic, when they did not want to over-emphasize the structure. I now come to the main part of my lec-ture, to the question of what we can do about stresses and how we can show them. In every beam, in every structure, there are stresses, and these stresses are at every point in a certain direction. In actual fact stresses are in all directions, but we have what are called main stresses in a certain main direction at every point. This is noth-ing new; these stresses have often been ing new; these stresses have often been plotted, and are called trajectories of stress. I am going to show you these trajectories, and I think that all the shapes can be based on these trajectories.

TRAJECTORY & PRINCIPAL STRESSES

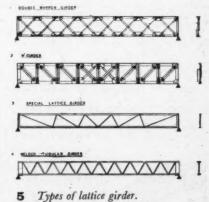


I want to warn you that afterwards I am going to show you "anti-stresses," by which I mean the "wrongest" stress lines, which are, as I shall show, of great importance. In Side 3 there are several diagrams. At the top the stress lines are plotted, and are shown nearer together or thicker or both where the stresses are larger, and thinner or dotted where the stresses become smaller.

This shows what really happens in a beam. It is a very nice pattern, but it would be very difficult to show this pattern as such; you can, however, idealize it and show some-thing of it in a beam. You can, for in-stance, take the parallel lines, and you get the type of construction shown in No. 1, which is an ordinary steel joist with two parallel lines, top and bottom, being more stressed. Again, you can take the motif of these trajectories crossing each other. They cross each other in all circumstances at 90 deg., and from that you get the shape 90 deg., and from that you get the shape of the lattice girder, No. 2. Finally, you can say: "The lines which we have here are not really parallel lines," and you can try to get away from the outside shape and show those lines by the fish-bellied truss, No. 3. which is the middle those No. 3, which is thicker in the middle than No. 3, which is thicker in the middle than at the ends, more or less in relation to the parabola; or you can have a compromise between No. 1 and No. 3 and have some-thing which can be more like the one or the other, with one straight line and the other, which is very much emphasized, near the parabolic line, so getting the trussed beam, No. 4. These are the four main shapes. shapes.



We can subdivide them, as shown in slides 4 to 7. You can bring vertical lines into it and vary their disposition, having them fur-ther apart in the middle than at the ends. There is also the reinforced concrete beam, but, while this gives a nice sort of shape, you will not be able to see it unless one day you use reinforced Perspex, in which case you might be able to see the steel. Finally, you have the compound girder, which has more stress in the middle than at the ends.



You can also get the shapes shown in Slide 5. I want to show you how pattern has become quite important. This shows the welded girder and the riveted girder, and you will see why I say that the welded beams give more opportunity to the archi-tect. No. 3 is the cheapest type of truss of this sort, and can be made very easily.

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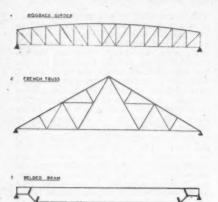
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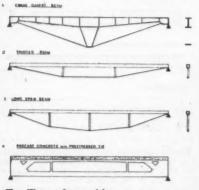
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6 Riveted and welded structures for roof construction.

In Slide 6 you see the parabolic shape. I do not want to go into a great many details, but you have the hogback girder and the French truss, shaped to fit the roof, and finally you have a plate girder shaped as shown, which can be done easily by welding. This gives the girder great stability, and is of advantage for crane and similar girders.



7 Types of trussed beam.

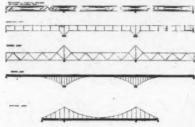
Finally, Slide 7, we have a type towards which I have, I am afraid, a certain bias, the trussed beam. I believe that much greater use will be made of this type in steel and concrete than before. I find them very useful, but other people may have different opinions about them. You get shapes like No. 1, which is particularly important because the centre part may take some of the bending, and this is very useful for very heavy loads on large spans. No. 2 is a variation of that, and there may be more points at the lower chord. No. 3 would not necessarily be a parabola; in many cases a different sort of shape may be found useful, and it can be shaped very much according to the loads, to give the minimum stresses. No. 4 is more or less on the same principle

the same principle. Slide 8 shows a practical example, the Saltash Bridge. I do not think that people



B The Saltash Bridge, Cornwall.

dare to be so exact now as they were ninety years ago. This bridge is shaped to its exact function; it is exactly the same as one of the shapes which I showed you before, with the upper chord showing strongly, the lower chord being of secondary importance and the diagonals being so small that you scarcely see them.



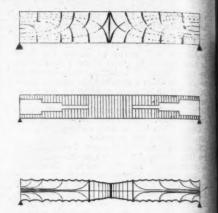
9 Types of continuous beam.

Up to now I have talked about ordinary beams. Slide 9 shows continuous beams. I shall show examples of these later, and show that the same sort of problems occur again. In continuous beams you get multiple points where stresses are prevalent, and in particular the points over the supports. If you want to translate that, you may do so by an ordinary beam (No. 1) or into the type of construction shown in Nos. 2 and 3, or finally into the suspension bridge No. 4. In this diagram, of course, the suspension bridge is shown on an entirely different scale from the others.



10 Lincoln Cathedral.

Slide 10 is the last picture that I want to show of historical constructions which have been extremely correct. It is Lincoln Cathedral, which is early English. We find almost everywhere in early English churches that an attempt has been made to do something which is in conformity with the actual stresses, and so a considerable load is put on the points where there are arch shapes, with a smaller load, which more or less forms a pattern, in between, which indicates a uniformly distributed load. We find that in all the churches of that period. Towards the roof, right at the top, a keystone is usually placed, which indicates a load which I agree is not usually there, but which at least suggests itself to the observer. Slide 11 deals with anti-stress lines. They look very weird; I have taken a bending moment diagram and converted it into its reciprocal. Where the stresses are largest I have shown the lines as small or dotted or far apart, and where the stresses are smallest I have shown the lines as thick or near together, and so you get what I like



11 Anti-stress lines.

to call the anti-stresses. This is what should really be shown on a beam if you want, completely to distract attention from the stresses.

In the next diagram I have tried to do what I did before, and to idealize that sort of thing. You get more vertical stresses in the middle and less at the ends. It is something which I have never seen yet. You saw before the fish-bellied beam which had the greatest thickness in the middle. In this case we are going to contract it in the middle. What else can we do? We can express these rather harsh stresses that Hit the circumference of the beam, and get the sort of shape shown at the bottom of this slide. You will say that you have never seen that, but I think that you are wrong. Let us look at Slide 12, which is late Gothic and shows Durham Cathedral. You see this in all late Gothic and in almost all Decorated and Perpendicular Gothic cathedrals, namely that while the arch has a Gothic form, inside the arch something is added which is very similar to the sort of stress which I showed you a moment ago.



12 Durham Cathedral.

I do not imagine that anyone has had the idea of showing anti-stresses, but they have obviously had the idea of detracting from the structure. As Gothic went on we know that people more and more tended to detract from the structure, which they had emphasized so much at the beginning, and the shape which they got is very like the one which I showed you before. The Perpendicular style has gone away from the practice of showing the capital as something which increases towards the top, like a human being carrying a load on two hands; it shows parallel lines and is an antistress capital.

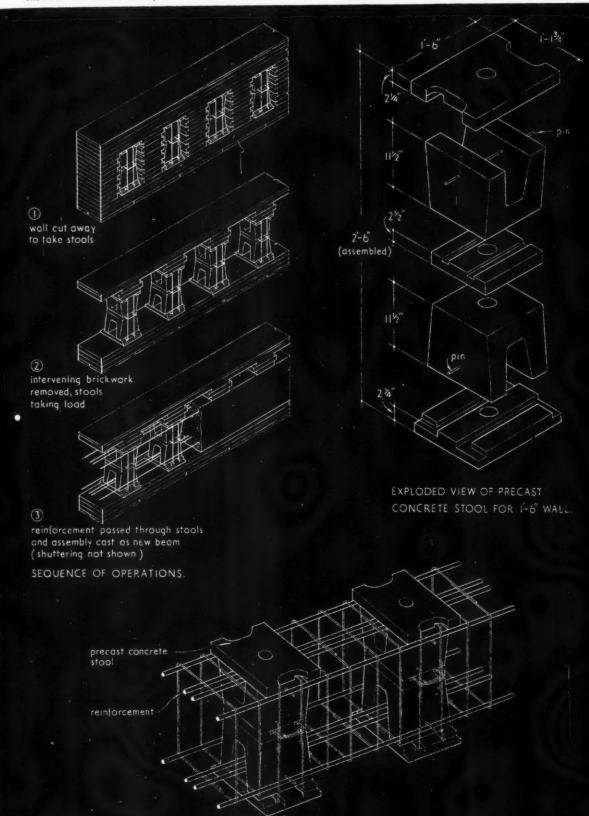
stress capital. Slide 13 is the Henry VII chapel in Westminster Abbey, and here you see the same sort of effect. While the main arches are of Gothic shape, you get in between the stalactites which are very similar to the anti-stress lines which I showed you before.





PRODUCTS FOUNDATIONS AND PILING

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REINFORCEMENT TO STOOLS AS READY FOR CASTING.

26.E2 · PYNFORD · METHOD OF UNDERPINNING

This Sheet describes the Pynford method of underpinning. The method enables walls to be underpinned in continuous runs without the use of needles and raking shores.

Description and Sequence of Operations

The brickwork should be cut away to take the precast concrete stools at intervals which vary with the weight to be carried and the type of stool used. All intervening brickwork is then removed leaving the wall supported only by the stooling. Reinforcement is then placed in position, formwork erected and concrete poured in. The stools remain in forming an integral part of the finished beam. When set, the spaces between the top of the beam and wall above are filled in with brickwork or masonry to match the existing structure.

Treatment at Corners of Heavy Buildings

In these cases the beams should be extended beyond the quoins in either or both directions and used as shoring until foundation bases have been formed. Where the beams occur above ground level or foul an adjoining structure the projecting ends are cut away either flush with the bases or the building quoins. When cast, the frame is carried on suitable bases or piling heads.

Sizes

Stools are available for 9 in., 11 in., 1 ft. 1½ in. and 1 ft. 6 in. walls, the overall sizes being as follows:— 9 in. walls ... 6 in. high by 9 in. wide by 9 in. deep. 11 in. walls ... 6 in. high by 9 in. wide by 11 in. deep. 1 ft. 1½ in. walls ... 6 in. high by 9 in. wide by 1 ft. 1½ in. deep.

1 ft. 6 in. walls . . 2 ft. 6 in. high by 1 ft. 12 in. wide by 1 ft. 6 in. deep.

The beam space stooling for walls up to 1 ft. $1\frac{1}{2}$ in, may be arranged from two castings and these two castings will allow sufficient space to be provided for any likely beams for supporting walls up to 1 ft. $1\frac{1}{2}$ in. thick.

In the case of 1 ft. 6 in. thick walls it is necessary to use three different castings to construct the beam space for the majority of beams which will be necessary, although sometimes small beams will suffice when only two castings will again construct the beam space stooling.

In the case of all the smaller beams where the concrete will take shear stresses, the spacing of the stirrups or vertical loops may be nominal and the spacing between the stools will provide all that is necessary, but where shear stress has to be taken by steel it is often necessary to provide stirrups in the space taken by the stools and this is introduced into the stools while they are being built into position during the early stages of the job.

The even spacing of the stools along the wall to be underpinned provides opportunity to support the reinforcement and this is taken and rendered in the form of pins which pass through the stools at their tops and bottoms.

Further Information

The manufacturers are the patentees and are specialists in und.rpinning foundation work and soil testing.

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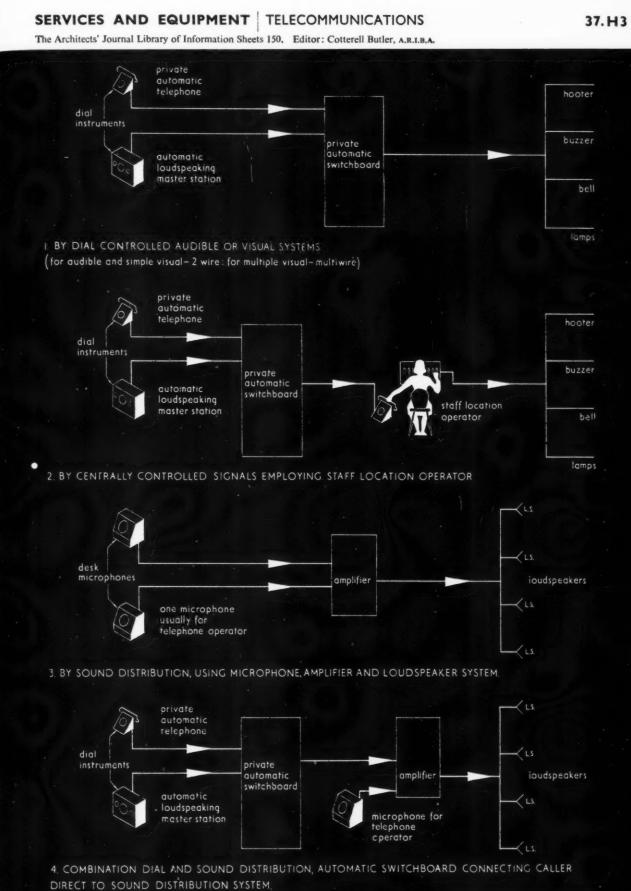
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note: for return line communication see notes on reverse

17.H3

Architects' Journal 3.3.49

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37.H3 STAFF LOCATION SYSTEMS

General

This is the third of a group of Sheets (excludingsupp'ementary Sheet S37.H1) describing types of telecommunication system and deals with staff location systems.

These are based upon the following arrangements; a selection of the personnel is allotted individual codes which may be sounded or shown upon signal units disposed throughout the premises. On recognising his code the person called uses the internal telephone system to reply to the code, which is thereupon discontinued. The different types of code and the manner of controlling them are described below and the systems are summarised on the face of this Sheet.

1. Dial Controlled Audible or Visual Systems

Audible two-wire: The signal units consist of buzzers and/or hooters and/or bells and/or any other form of signal device selected with regard to their locations. The appropriate code, which in this system would be of a morse-like character, is sent out from any instrument of the private automatic telephone system by dialling a corresponding number, and can be answered from any other private automatic telephone by dialling a figure allotted as a reply number—which is always the same. This gives immediate telephone connection and stops the staff location signal: thus only one telephone call is necessary to effect staff location by this system. Two wires only connect all the audible devices to each other and to the automatic switch board. Wires in the multicore cables of a private automatic telephone system may be employed as part of the wiring for this staff location system.

Visual two-wire: This system is precisely similar to the above except that the signals are flashed upon lamps instead of sounded upon audible devices. It has the advantage of silence or of being practicable in very noisy conditions and may be combined with the system first described so as to provide silent signals in some parts of the premises and audible signals in others. Nevertheless this type of system cannot be fully recommended as the character of the signals may not be clear at first sight and it may be necessary to wait for them to be repeated.

Visual multi-lamp and multi-wire: This system employs combinations of coloured lights or illuminated stencils as signals but is otherwise controlled as previously described. The number of different codes that may be employed depends upon the number of lamps, but may be multiplied by using the same combinations twice over, e.g., one signal when the lamps show continuously and a different signal if they are flickered. It is not usual to employ signal units of more than four lamps. The system is silent in operation but buzzers or single stroke bells are sometimes employed to draw attention to a signal.

The system is somewhat expensive to install, partly because there must be 4 wires for a 3-lamp system or 5 wires for a 4-lamp system connecting all the signal units and also because it is usually operated on mains voltage, which normally necessitates all the wires being run in conduit. It is, however, particularly suitable for premises such as hospitals, etc.

2. Centrally Controlled Staff Location

Any of the above types may be operated from a suitable control device located with a given individual usually the telephone operator instead of from the dials of a private automatic telephone system. This, however, is somewhat slower in operation since three telephone calls are necessary before a staff location is effected, *i.e.*, from the caller to the staff location operator, from the wanted person (after recognising his code) to the staff location operator, and from the wanted person to the caller—completing the operation.

3 and 4. Sound Distribution Systems

It is considered that a separate sound distribution system is by far the best, being the most flexible, method of effecting staff location, as the purpose of the staff location call can be directly conveyed through the loudspeakers and appropriate action taken at once by the wanted person. Under many circumstances, particularly in industrial organisations, a sound distribution system can be justified for staff location purposes alone, but it also carries the further advantages that it can be employed for public address and/or the distribution of radio or gramophone programmes and automatic time signals. 13

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There are two methods of employing sound distribution for staff location :---

By microphones: Allocated to the telephone operator and in some cases to certain executives.

By direct speech: From any or all of the instruments of a private automatic telephone system, generally, though not necessarily, with a microphone for the telephone operator.

Staff location by direct speech from private automatic telephones is effected by dialling a selected number which gives the caller the use for the time being of the amplifier of the sound distribution system. By this means he is able to request the wanted person to contact him by telephone or personally. Alternatively, arrangements can be provided making it possible for the wanted person to contact the caller without knowing the latter's identity by dialling a reply number which automatically connects him to the caller and frees the amplifier of the sound distribution system. The only provision which need be made for staff location systems is the selection of a suitable type of system with its signal units or loudspeakers and the disposition of cables and wires.

B.S. Codes of Practice

The installation, equipment and services dealt with in this group of Sheets comply with the recommendations of British Standard Codes of Practice (Telecommunications) where relevant.

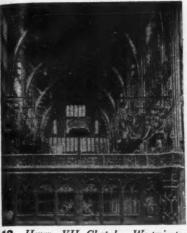
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13 Henry VII Chapel, Westminster Abbey.

the intention being to draw attention away from the structure.

which is Baroque. Slide 14 is not Baroque, but is one of the arches in the Alhambra, which is Saracen architecture, but the principle is exactly the same. There is nothing left of the arch but the anti-stress lines, and it is obvious from studies of that architecture that that is what is intended, that you should not think too much of structure.

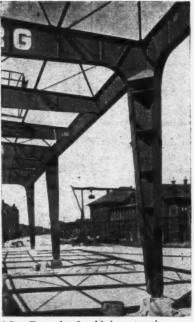


14 The Alhambra.

Before I start showing you some modern architecture, I want you to look at Slide 15, which shows riveted steel construc-tion, and Slide 16, which shows welded steel construction. I can quite appreciate that no architect could do much with the former, but I think it is perfectly feasible to use the latter and to make interesting shapes with it. That is why I feel sorry that these examples have not really been used very frequently; there are only a very few examples of where a shape of that kind has really been used.



15 Example of riveted steel construction.



Example of welded construction. 16

A shell construction which I think is very attractive is in Madrid (Slide 17). I should like you to look particularly at the kind of lace-work in glass arranged in between the picces of concrete. It is triangulated, and shows that a shell construction can be done with a considerable amount of glass in it. I come now to my last point. I have



17 Example of shell concrete construction.

already said that I want to say something in favour of lattice construction. First of all, I want you to realize that lattice construction, using as it does more labour and less material, is very suited to these times. A curious thing has happened during the last hundred years; architects have, I think, last hundred years; architects have, I think, become uninterested in lattice work, so unin-terested that they are not very worried when they put up a building about how the members run; they just let the engineer do it. That may be right, but as the enginer r is not being asked to give these members any particular shape you cannot expect a very hematiku building to result beautiful building to result.

I think that there are three reasons why architects have not been interested. First of architects have not been interested. This of all, in perspective many lattice girders are overcut in such a way that it is not possible to see anything. Secondly, riveted girders may be made from angles and channels and do not clearly indicate where the strength lies; the weak and strong members look the same, and you do not get any differentia-tion. Thirdly, the triangulation in some cases is somewhat inhuman and results in lack of interest.

Slide 18 is an example of riveted construc-tion which is so complicated that it should never be tolerated. It is the Howrah Bridge at Calcutta, which was opened only a few months ago. By way of comparison, Slide 19 shows a welded steel construction from tubes and bars, and it shows that you obtain a differentiation in that case which is missing

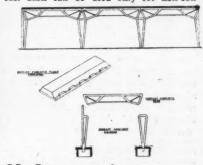


18 Riveted construction: Howrah Bridge, Calcutta.



Welded construction: Garage at Juxon 19 Street, London.

from riveted construction. I am not maintaining that that is the last word in shaping a truss; I merely say that this is one way of getting towards something more interesting. The opinion has been expressed that pre-cast units can be used only for non-con-



20 Precast concrete frame.

tinuous members. This is quite wrong, and the sort of shape shown in Slide 20 speaks for itself. You can see how it is composed out of single parts. The mere fact that the centre part is not completely triangulated— which is useful in concrete, which can take some bending—makes it more interesting than the ordinary trues construction. The tie than the ordinary truss construction. The tie member, when this was designed, was in steel, but it could be in pre-stressed concrete and would look approximately the same. It is possible in these members to make a clear distinction between compression and tension, with a thick compression member and a small tension member.

I want to show you here that again it is possible to get a lighter construction, to have something which is in a way lattice con-struction but is not completely lattice con-struction, which has a good stress distribu-

tion and a pleasant appearance. I have talked too long already, and all that I want to do now is to thank you for listening so patiently and to express the hope that I may have induced one or two of you to take an interest in these matters, and pos-sibly to carry the investigation further than I have been able to carry it.

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TECHNICAL SECTION

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5.29 planning: public utilities

MOTORWAYS: ECONOMICS

Economics of Motorways: Report. Joint Committee of the British Road Federation, the Institution of Highway Engineers and the Society of Motor Manufacturers & Traders. (British Road Federation, 1948.) Informative statement presented to Minis-

ter of Transport in October, 1948, on economic gains resulting from construction of system of motorways with particular reference to operation of goods vehicles. Charts. Tables.

Saving of operating costs on motorways compared with costs on existing all-purpose Expenditure on building motorways roads. roads. Expenditure on building motorways related to improvement schemes for exist-ing roads. Additional economic advan-tages from linking not only main industrial areas by means of single-purpose roads but also providing for them in heavily built-up areas. Summary of design standards. Tables setting out running costs of vehicles in motive: operating out the head on time in motion; operating costs based on time and independent of mileage run; total operating cost per mile; and savings in cost of operation and time per person on motorways

17.48 construction : gone

PRESTRESSED CONCRETE

Recent Developments in the Precasting and Prestressing of Concrete. ASB lecture by L. W. Elliott. (The Architect and Building News, Nov. 19, 1948, pp. 426-431 and other journals.)

Brief survey, illustrated by examples, of recent developments in this country and abroad.

17.49 construction : per **ELEMENTARY CONSTRUCTION**

Building Construction (Book II). E. G. Bartle. (Sir Isaac Pitman & Sons, Ltd. Bartle. (S 1948. 6s.)

Elementary building construction intended for third year students in secondary technical schools. Better than most elementary construction books.

18.21 construction: theory

STRUCTURAL MECHANICS

The Principles of Structural Mechanics. Percy J. Waldram. (B. T. Batsford Ltd., 3rd edition, 1948. 18s. net.)

Elementary book on structural mechanics dealing with simple structures of homogeneous materials and principles of reinforced concrete design.

As the sub-title indicates, the subject is treated without the use of higher mathematics. The third edition, revised in January, 1948, includes a new chapter on reinforced 1948, includes a new chapter on reinforced concrete. In the chapters on statically in-determinate systems, e.g., beams with fixed ends and beams continuous over inter-mediate supports, one would have expected reference to the Hardy Cross method, de-veloped since the publication of the 2nd edition (1930), but this method is not even mentioned although it is widely adopted because its use does not need the knowledge because its use does not need the knowledge of higher mathematics. In the introduction the author rightly warns

his readers of the danger of superficial knowledge. Unfortunately, a reader who would attempt to design reinforced con-crete on the basis of knowledge obtained from this book would not escape this danger. For example, the new section on reinforced concrete, full of formulæ and diagrams re-lating to the depth of the neutral axis, lever arm, section modulus, etc., purposely ex-cludes the problems arising in connection with shear. To give elaborate formulæ, graphs and examples for the design of the tensile reinforcement of T-beams with-out emphasizing the necessity of dealing with

out emphasizing the necessity of dealing with shear stresses may have disastrous conse-quences, To quote from the introduction:— "If a heavily loaded beam buckles at the ends under the action of horizontal shear, and not at the centre where failure was expected and provided against, it is no consolation to the widow and orphans of a workman who however to be undersect a workman who happened to be underneath that the designer's text book had never pointed out the object of web stiffeners. He ought to know about it ere he called him-self a designer at all."

If in this sentence we substitute "fails" for "buckles" and "shear reinforcement" for "web stiffeners" the author's criticism of other text-books will be applicable to his own.

As against this omission it is only of minor importance that the permissible stresses on which all the graphs are based have been which all the graphs are based have been out of date not only since the publication of CP114:1948, but were superseded by higher stresses already by the first Code of Practice in 1934 and the LCC by-laws in 1938.

20.110 construction: complete structures PRESTRESSED CONCRETE

Concrete. Some British (The Builder, Jan. 14, 1949, Prestressed F.xamples. pp. 75-6.)

Examples of bridges and buildings in prestressed concrete recently carried out in this country.

Among the examples described are the Adam Viaduct, Wigan (see No. 20.37), Nunn's Bridge, Lincs. (see No. 20.74), strengthening of St. Luke's Church, Silverdale (see No. 21.22), British Overseas Airdale (see No. 21.22), British Overseas Air-ways Corporation (see No. 20.107). New examples are: (1) A single storey factory extension at Tiverton, Devon, where pre-stressed precast girders of 54 ft. 7 in. in accordance with the Magnel-Blaton system were used. (2) Floor beams of 20 ft. span in a paint factory at Chadwell Heath, Essex. (3) Factory at Bristol with precast pre-stressed columns. The article also refers to five over-line

The article also refers to five over-line bridges now under construction on the line between Manchester and Wath, Eastern Region, British Railways.

20.111 construction: complete structures FLATS IN POPLAR

Flats in the Abbot Road Area. For the Poplar Borough Council. W. J. Rankin, C. H. Weed. (The Builder, Dec. 3, 1948, pp. 652-5, and other journals.)

Six-storey blocks, steel framed, clad externally with precast concrete panel units. Cladding erected entirely from inside. Cladding and 2 in. thick wood-wool inner lining act as permanent shuttering for a 4 in. in situ concrete infilling between.

20.112 construction: complete structures PODOLSKO BRIDGE

Contractor Meets Close Design Tolerances In Building Longspan Concrete Arch Bridge. J. J. Polivka. (Civil Eng. [USA], Jan. 1949, pp. 40-43, 73.)

Design and construction of longest reinforced concrete arch bridge in Central Europe.

The Podolsko bridge over the Vltava river, Czechoslovakia, is 1,680 ft. long. The central arch of 492 ft. clear span is of solid concrete of 6 ft. 64 in. thickness, equal to 1/75th of the span. Its unique feature is that two spandrel arches are supported at the quarter points of the main arch. This highly indeterminate structure was analysed by the photoelastic method. Great care was taken in the construction of the centering.

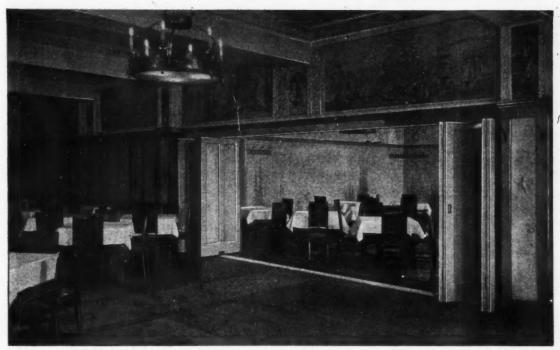
The article contains data of design and

INFORMATION CENTRE INDEX, 1948

An alphabetical index covering items published during the twelve months ended December 31, 1948, is being prepared. Readers who wish to have a copy-it is free of charge-should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than March 3, 1949.

Please send me the Information Centre Index for 1948 :--

Name	******		
Address			********
	••••••	A.J.	3.3.49



Restaurant Screen with weight taken on ground

ON THE GROUND-OR OVERHEAD?

There are four main types of Henderson Folding Partition and Window Gear, each designed to suit particular circumstances. In some cases the weight can be taken from above, in others it must be taken on the ground or cill. Every enquiry is carefully studied, and our Drawing Office service and trained technical representatives are freely available to ensure that the correct gear is accurately prepared for each job. Thus any competent joiner can then make and erect. Architects have specified Henderson Folding Partition Gear with confidence for over twenty-five years-with the result that it can be seen today in famous buildings throughout the country. Catalogue No. 48 contains diagrams, photographs and complete specification data.

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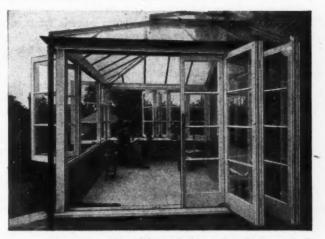
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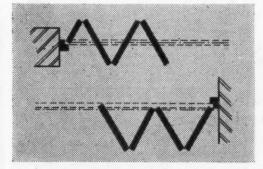
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3.3.49



Verandah doors and windows with weight taken overhead



Henderson SLIDING DOOR GEAR



for any Door, Partition or Window that slides or folds

P.C. HENDERSON LIMITED · TANGENT WORKS · BARKING · ESSEX

FUEL FOR AGA COOKERS IS IN PLENTIFUL SUPPLY

ALL MODELS OF THE AGA COOKER BURN EFFICIENTLY ON COKE... AND SUPPLIES OF DOMESTIC COKE ARE PLENTIFUL

RECENT REPORTS about difficulty in obtaining suitable fuel for cookers of slow combustion or heat conserving types have been misleading.

Aga owners and prospective purchasers should not be concerned by these reports — the Aga burns coke !

THE AGA DESIGNED FOR COKE

In fact, all models of the Aga cooker have been designed specifically to burn coke—the cooker and water heater models for a minimum of 10 hours unattended, other models for a longer period.

Domestic coke is in plentiful supply. One ton of this fuel will last as long in an Aga as a ton of anthracite, and costs considerably less.

The special design and construction from high-duty chrome iron of the Aga firebox makes the Aga cooker suitable for burning all qualities of domestic coke of the correct size.

Many present Aga owners know from their own experience that coke is an efficient fuel for the Aga.

The Aga was designed, originally, in Sweden to burn coke.

With no natural coal resources of their own, the Swedes have always imported their fuel and they have always used coke for Aga cookers.

AUSTRALIANS USE COKE

The steady and increasing demand for Aga cookers in overseas markets substantiates still further the efficient performance of these cookers when fuelled with coke. In most of these countries, coke is the only available fuel.

In Australia, one of the best Aga export markets, Aga owners get satisfactory performance using coke even of inferior qualities. The increase in sales demands for the Aga proves further its success with this fuel.

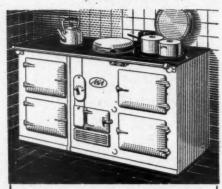
NO HARDSHIP FOR AGA OWNERS

It is in national interests that export demands for anthracite should be satisfied.

The export of this fuel, however, need not cause any hardship to present or prospective Aga owners.

Both in this country and abroad, the reputation of the Aga for efficiency and economy has been established by its performance as a coke-burning cooker.

The Aga saves fuel for the householder and the nation.



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This is the Aga Model B Cooker for the larger household. Its guaranteed maximum fuel consumption per year is 3 tons using COKE or "Phurnacite".

ALL AGA MODELS BURN COKE

Night and day, the Aga is ready to cook. Using coke, its continuous burning fire needs fuel only twice in 24 hours, or 3 times for cookers with water heater and the heavy duty models.

Coke is the most economical smokeless fuel for all Aga models. It costs 20% less than anthracite. Any quality of the correct size is effective fuel for both domestic and heavy duty models in use in schools, hotels, hospitals, etc.

Domestic Aga models are priced from $\pounds 85$ to $\pounds 115$.



This is the Aga Model CB Gooker and Water Heater for the medium size family. Its guaranteed maximum fuel consumption per year is 31 tons using COKE or "Phurnacite".

AGA HEAT LIMITED

Orchard House, Orchard St., London, W.I

(Proprietors: ALLIED INONFOUNDERS LTD.)

details of construction. The bridge was commenced in 1938 and completed in 1941.

23.93 heating and ventilation HOT WATER, SCHOOLS

Domestic Hot Water Supply by Gas (Schools). BS C. of P. 332.202:1948. (British Standards Institution, 1948. 55.)

Requirements, design and installation of gas-heated hot water supply in schools. Useful both on general points and details.

This code deals with systems of heating water for domestic use in schools, by means of gas appliances, including auxiliary heat-ing for clothes-drying when the central heat-ing is not in use. Neither cold water supply and storage, nor central heating, are ferenced in the code cussed in the code.

Hot water is required at varying demand ates for many domestic purposes in schools; these points influence the selection of suitable installations. The design sec-tion of the code describes the systems available, their selection, and the types of appliance suitable for specified duties. There is also information on the temperatures generally accepted for particular purposes, and the provision of alternative heating by gas in central-heating systems using solid fuel. The code points out the desirability of temperature and time controls. In the section: "Installation considerations which affect design," recommendations are given on a number of points, including gas supply, nature of water supply, cold water supply arrangements, length of non-circulatory draw-off pipes, insulation, vent-

ing, etc. The efficiency of a water-heating system depends very much on the manner in which it is installed and the code makes extensive it is installed and the code makes extensive recommendations on the installation of the principal types of heaters. The "Work on Site" section contains advice on bending, cutting and jointing, fixing and supporting pipes; and on provision for expansion and contraction and protection from damage. Tables set out the recommended spacing of supports for pipes of different gauges and materials: the canacities performance desupports for pipes of different gauges and materials; the capacities, performance de-tails and special features of various types of water heater; and hot-water storage requirements in schools. The code is illustrated with fifteen diagrams, one of which is a nomogram link-ing pipe sizes to flow of water and loss of head.

24.104 lighting VISION RESEARCH

Muscular Tension as an Index of Visual Efficiency. M. E. Bitterman, T. A. Ryan

and C.-L. Cottrell. (Illum. Eng. [USA]. Nov., 1948, p. 1074.)

Measurement of strain resulting from glare. Important, but technical.

This note is important, not because of any direct architectural effect, but because it promises a measurement of the strain associated with glare. The authors describe what seems to be a fundamental method of study, in which the increased difficulty of doing work in the presence of glare is displayed in the measurement of changing electrical potential in various muscles over the If the work is carried to a successful body. conclusion, we may expect at last to be able to put figures on the effects of sky glare, and discomfort and disability from artificial sources. From this it would be possible to reach a much more advanced stage of control.

25.66 water supply and sanitation WATER SUPPLY

Water Supply. BS Draft C. of P. 310: 1948. (British Standards Institution. 6s.)

Part I-Supplies from Public Water Undertaking. Part II-Supplies from Wells, Boreholes, Rivers, etc. Part III-Con-veyance. Lists of British Standards. General design of piping, including for hot water, methods of pipe jointing, etc.

Part I is a single page of more or less use-less exhortation of the standard C. of P.

Part II deals with water supply from private sources and will be a useful source of reference to those who meet such prob-

lems only rarely. Part III deals with matters of everyday occurrence and goes into great detail in places.

so many Codes of Practice are split up into several parts and issued separately when they could so much better be issued as one document, that it seems hard to as one document, that it seems hard to criticize one for doing the reverse. In this case, however, the type of information in Part II is so different from Part III and the number of users of the different parts is likely to be so different that consideration might be given to publishing, in the final form, Part III as a separate Code. The price would presumably be about half of the present draft and it would satisfy all the requirements for most architects or builders. builders

25.67 water supply and sanitation WASTE HEAT RECOVERY

The Conservation of Heat in Dwelling



Podolsko Bridge, Czechoslovakia. See 20.112.

TECHNICAL SECTION

Houses. H. Goddard (J. Royal Sanitary Inst., Jan., 1949.).

Brief reference to general conservation of heat. Main point is description of simple heat exchanger to regain heat from bath water. Forty per cent. saving of heat claimed.

The author was the winner of the John Edward Worth Prize Essay for 1947. Most of his essay is given to a description of a simple heat exchanger for regaining some of the considerable amount of heat which of the considerable amount of heat which goes to waste from baths and basins in houses. An economizer is illustrated and described in detail. Calculations claim a saving of 40 per cent. of the total heat in bath water after making reasonable allow-ances for various losses. The practical aspects of cleaning the appliance are-covered and the idea seems worthy of a full-scale trial. full-scale trial.

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

OUESTIONS AND ANSWERS

2979 RURAL WATER SUPPLIES

Q I shall be obliged if you will let me know the statutory obligations of an owner of rural cottage property with regard to water supply, sanitation, etc. I have a to water supply, sanitation, etc. I have a client who owns cottages in a village to which a mains water supply has just been provided. Is he compelled to lay water on to the cottages individually? Also, what is the law governing the condemning of cot-tages; before a cottage is condemned has an owner the opportunity of improving it? I mention this as presumably the fact that water is not laid on to a cottage has some bearing as to whether it is condemned or not. or not.

A Under Section 138 of the Public Health Act, 1936, the local authority can de-mand that an existing occupied house be supplied with water if a suitable supply is available.

Section 139 gives an owner the right to appeal against the requirement of the local authority on the grounds set out in the Section. The appeal is made to the Minis-ter of Health within 28 days after a notice has been served on the owner by the local authority.

Under Section 39 of the Act the local authority can demand suitable drainage of an existing building. Section 290 gives the owner a right to appeal to a court of sum-mary jurisdiction against the requirement of the local authority on the grounds set out in the Section.

Under Section 47 the local authority can demand that earth closets be converted to water closets if a sufficient water supply and sewer are available, but the local authority must pay half the cost of the work. An appeal by the owner is to a court of sum-

appeal by the owner is to a court of sum-mary jurisdiction under Section 290. Rainwater storage for human consumption is dealt with under Byelaws. A Memoran-dum has been published by the Ministry of Health dealing with rainwater for domestic supplies with particular reference to rural areas. The Memorandum is 183.W, issued in 1934.

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NO FLOORING SURFACE is ideally suited to all conditions of use. But Semastic Decorative Tiles do provide a combination of desirable qualities (resilience, toughness, pleasant appearance, ease of cleaning) in a decorative flooring material that is low in price, in free supply on the home market, and available in a range of colours wide enough to harmonise with almost any decorative scheme.

These tiles are laid only by Semtex Limited or by specialist contractors approved by this Company.

SEMASTIC DECORATIVE TILES can be laid over any rigid sub-floor. Should the surface of the sub-floor be unduly rough or worn it can be

levelled up by the Company with a fleximer underlay.

SEMASTIC DECORATIVE TILES are not to be considered as a damp-proof course, but their resistance to damp enables them to be used successfully in basement rooms and similar locations on concrete in direct contact with earth.

DAMAGE FROM ACCIDENT or misuse can easily be repaired by lifting the particular tile or tiles affected and replacing. Areas subjected to particularly heavy wear can be renewed without producing the unpleasant effect of patching.

SEMASTIC DECORATIVE TILES are produced by a process which subjects the material to great heat and



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The illustration shows Semastic Decorative Tiles installed by Semtex Ltd. in the entrance foyer of Convoys Ltd., "News of the World" building, Bouverie Street. (Architect: Mr. Leslie Twigg, F.R.I.B.A.). Other recent examples of this type of flooring are to be found in the Administrative Building, B.O.A.C. at Brentford, British Nylon Spinners Ltd., Pontypool and I.C.I. Research Laboratories, Blackley, Manchester.

pressure. Pigment and 'marbling' pervade the full thickness of the tile. Made in two thicknesses— $\frac{1}{6}$ " and $\frac{3}{16}$ "—the latter for heavy duty—they give lasting service and remain pleasant to look at with a minimum of maintenance. They are highly resistant to staining, are not charred by lighted cigarette ends, and keep their original colour.

These tiles are sympathetic to the tread and provide a degree of warmth that makes them particularly comfortable to live with.

> MANUFACTURED BY SEMTEX LIMITED A Dunlop Company

For a list of the addresses of contractors approved to lay Semastic Decorative Tiles see page lviii of this issue

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

INDUSTRY THE

By Brian Grant

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The illustration on this page shows a Bucyrus-Erie walking dragline excavator now being used by the Parkinson Strip Mining Co. at Ewart Hill Deep, near Newcastle-on-Tyne. The point about it is that the bucket capa-The point about it is that the bucket capa-city is 25 cubic yards, the largest in the country; only when you look at the men in the foreground do you get any idea of the size of this machine, which weighs over 1,000 tons and has a boom 180 feet long. It digs 40 tons of earth and rock (or about the volume of the small bedroom in a 3-bedroom house) and dumps it up to 360 feet avenue. house) and dumps it up to 360 feet away,

all in less than a minute. Open-cast coal winning is not, of course, the architect's business, but the building in-dustry is doing most of the work and has already dug something like 50 million tons since 1942. At Ewart Hill there is about 3 million tons, covered by rock and clay over-burden up to 160 feet deep. By trenching in the gardener's way, but in widths of 80 feet or so, and to the depth of the coal, the whole site is turned over, the coal extracted, and the site made good with the top soil in its right place so that the land may be put into re-cultivation as soon as possible.

The machine now working here was origin-ally used on an open-cast site in Pennsyl-vania, but was bought by the Directorate of Open Cast Coal and re-erected in this country by Ruston Bucyrus, of Lincoln, a job which took nearly six months. The key machine on the site, it will be the job of this excava-tor to strip the majority of the 27 million or to warde of overburden so vards of overburden.

Apart from the general interest which anyopen cast and other work shows that our larger contractors are not necessarily the reactionary stick-in-the-muds that some would have us believe. Open cast has for years been a standard method of mining year been a standard method of mining coal in America, where there is also a very large regular expenditure on roads, canals and river levée work. New work, too, hence the regular use of large bulldozers, scrapers and draglines of this type. Muck shifting of this type was never done on any scale over here until the wartime demand for vast acreages of aerodrome, and on similar jobs like open cast. Contractors here have always known of the American techniques, but it makes no sense to buy a machine capable of 50 or 100 men's work unless it can work steadily the year round. When the right sort of jobs appear in a reasonable quantity, the right machines generally appear coal in America, where there is also a very quantity, the right machines generally appear too. (Sir Lindsay Parkinson and Co., Lindsay House, Shaftesbury Avenue, London, W.C.2.)

LIGHTING CALCULATIONS.

normal to the rays of light and on any ver-tical plane, and in this way the calculator eliminates much of the laborious arithmetic and trigonometry usual with calculations of this type. The illumination on the walls and working

plane of a room with one lighting fitting or under a large installation may be readily calculated and the same methods may be used for estimating the distribution of illuused for estimating the distribution of illu-mination given by floodlighting. For street lighting installations, calculations can be made of iso-foot-candle contours, deprecia-tion losses, lumens per hundred feet and illumination of the test point. The range of the scales covers most prac-tical conditions, the intensity scale extend-ing from 10 to 500,000 candles, the height or distance scale from 3 to 600 feet, the illumination scale from 0.002 to 100 lumens per so, ft, while the accuracy anywhere in

these ranges is about ± 0.2 per cent. The calculator is sold with an instruction book which gives detailed descriptions of its

application to a variety of problems, and contains clear statements of the formulæ re-quired for the problems and the ways of solving these formulæ on the calculator. It sells at £3 3s. (Holophane, Ltd., Elverton Street, Vincent Square, London, S.W.1.)

LIGHTWEIGHT CONCRETE

As a heat insulator, lightweight concrete is being increasingly used for the inner leaf in cavity walls and also to improve the sound insulation in party walls. Generally used in the form of pre-cast blocks, where used in the form of pre-cast blocks, where the mix and density can be quite accurately controlled in the factory, it has been diffi-cult, in the past, to obtain with certainty a concrete within 10 or 15 lb. per cubic foot of the desired figure. Since strength de-pends on density, it has thus often been necessary to aim at densities up to 15 lb. greater than required so as to be certain that the minimum structural strength is reached. The Pyrene Company have now introduced a process which, they claim, can with care achieve a density within 1 lb. of the required figure, while with normal methods of working the variation should not exceed 2 lb. a cubic foot. The company has, of course, been producing foam-making equipment for fire-fighting purposes for many years and has now evolved a material many years and has now evolved a material which can be used to produce concrete of any density down to the lightweight insulating fillers weighing no more than 20 lb. per cubic foot.

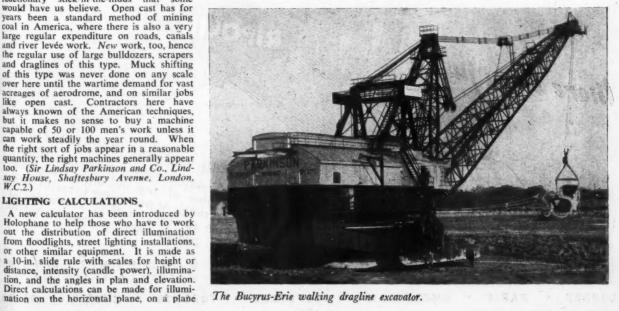


TECHNICAL SECTION

The new slide rule for working out the distribution of direct illumination from floodlights and street light's installations.

The concrete is produced by adding the finely bubbled foam to a rather dry connnely bubbled foam to a rather dry con-crete mix. The foaming agent is made up into a 2 per cent. solution with water, and the bubbles are produced in an aerating unit which needs a supply of compressed air. After the foam is added, mixing is continued for a short period and the concrete is ready for pouring. The foam is sufficiently stable to allow transport and pouring without colto allow transport and pouring without col-lapse and the cellular structure seems, judg-

lapse and the cellular structure seems, judg-ing by micro-photographs, to remain un-altered during setting. Cost naturally varies with the weight of the concrete produced, by far the greatest cost naturally being for the cement and aggregate. So far as the foam composition is concerned, the cost varies from about 0.6d. per cube foot for 100 lb. concrete to 1.5d.



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TECHNICAL SECTION

for a lightweight concrete weighing 30 lb., for a lightweight concrete weighing 50 ib., but although the cost of adding more light-ness, or "air aggregate" increases with the decrease in weight, the overall cost of the concrete becomes progressively less. (The Pyrene Company, Great West Road, Brent-tord Middlerer) ford, Middlesex.)

A NEW MASTIC

Tretol, Ltd., manufacturers of building materials and paints, have applied for the Patent Rights of a new jointing, scaling and pointing mastic, Tretol Caulking Compound, which has great powers of adhesion. This material, which has high resistance to most acids alkalis and other chemicals withstands acids, alkalis and other chemicals, withstands acids, alkalis and other chemicals, withstands temperatures as high as 325° F., and can be overpainted if required. Its use is suggested in those industries, such as tanneries, chemi-cal factories, etc., where the manufacturing process calls for the employment of chemi-cals. (Tretol, Ltd., 12, North End Road, London, N.W.11.)

Announcements

The telephone number of Mr. J. E. K. Harrison, F.R.I.B.A., of 82, York Way, London, N.1, has been changed to Terminus Harrison, 5694

The Council of the Royal Sanitary Institute have announced particulars of the prize essay competitions for 1949. Three prizes are offered: The John Edward Worth Prize of £40 for an essay on practical improve-ments or appliances or inventions used or proposed to be used in or about dwelling houses; the John S. Owens Prize of £15 for an essay on the ventilation of dwellings and effect on human health; and the Henry Saxon Snell Prize of fifty guineas for an

essay describing suggested improvements in essay describing suggested improvements in the construction or adaptation of sanitary appliances. Intending competitors should apply to the Royal Sanitary Institute, 90, Buckingham Palace Röad, London, S.W.1, for a copy of the general conditions. Messrs. Musgrave & Co. Ltd., St. Ann's Works, Belfast, announce that, due to the presentiue of merce compediates premiers

necessity of more commodious premises, their Bristol Branch Office has been transferred to 35. Broad Street, Bristol 1.

Buildings Illustrated

King George V Hospital and Queen Elizabeth Nurses' Home, Multa. (pages 205-208.) Architects: Adams, Holden & Pearson. General contractors: John Laing & Sons Ltd. and N. Zammit & Son, Malta. Sub-contractors: Malta Construction Co.; dampcontractors: Malta Construction Co.; damp-courses, Pudlo Waterproofed Cement; rein-forced concrete, B.R.C.; structural steel, Dorman, Long & Co.; floor tiles, Galea Bros.; glass, Pilkingtons Ltd.; central heating, G. N. Haden & Sons; oil-fired cooker, Allied Ironfounders; grates, Bratt Colbran Ltd.; gas fixtures, Malta & Mediterranean Gas Co.; hot water boilers, Ideal; steam boilers, Snencer Honwood: electric wiring, Electrical Spencer Hopwood; electric wiring, Electrical Installations Ltd.; sanitary fittings, W. N. Froy & Sons; door furniture, James Gibbons Ltd.; casements, Crittall Manufacturing Co. Ltd.; bells, Electrical Installations Ltd.; wall wall tiling, H. & R. Johnson Ltd.; kitchen fittings, Smith & Wellstood; church fi^ttings, G. Maile & Sons Ltd.; lifts, Express Lift Co. Ltd.; water-softening plant, Permutit Co.; signs, Lister Signs Ltd.

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

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of ⁴⁴ The Architects' appearing in this issue of Journal.

Please ask manufacturers to send further particulars to :
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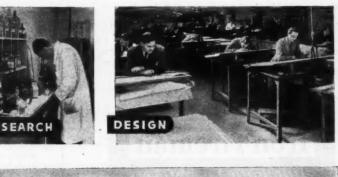
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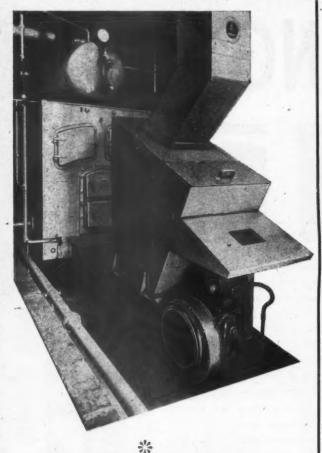








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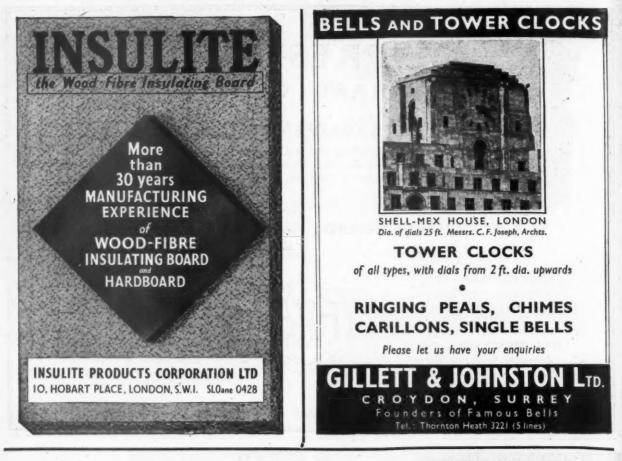


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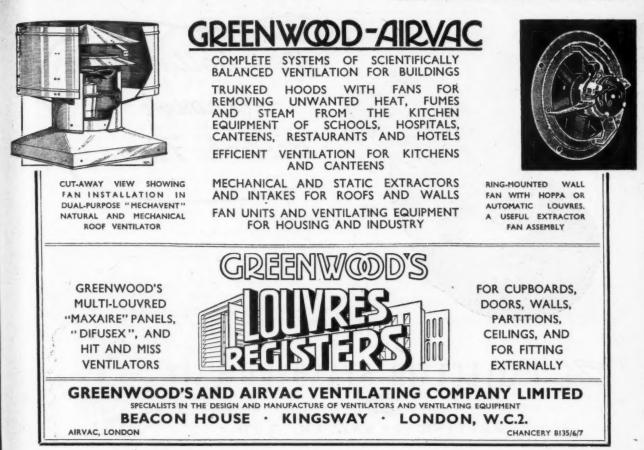
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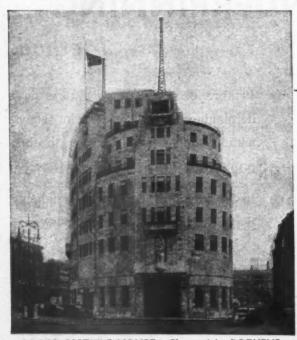
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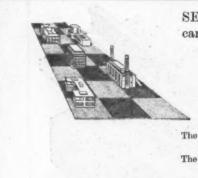
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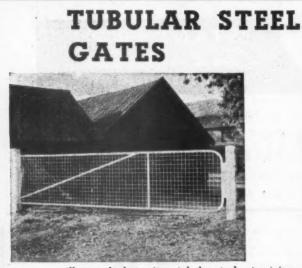
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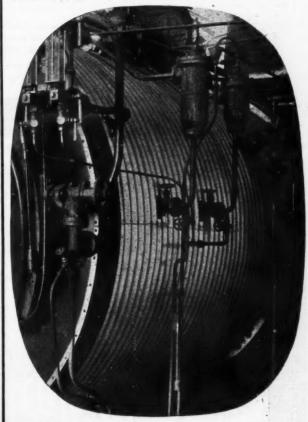
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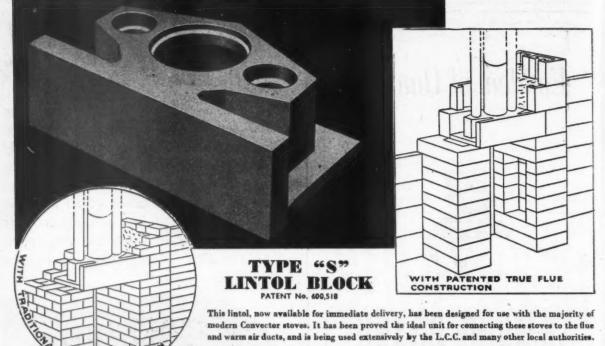


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Authority. Applicants must be terminable by one month's notice in writing on either side, and will be subject to the provisions of the Local Govern-ment Superannuation Act. 1937. The successful candidates will be required to pass a medical ex-amination. Forms of application may be obtained from the undersigned, by whom applications, together with the names of two referees, should be received not later than Tuesday, the 15th March, 1949. L. G. H. MUNSEY. Clerk of the Council.

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Shire Hall. Bury St. Edmund's. 17th February, 1949.

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HARRY BANN, Town Clerk.

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annum. The appointments are superannuable and sub-ject to a satisfactory medical examination. Canvassing will be a disqualification. Forms of apolication can be obtained from the undersigned, to whom they should be returned, duly completed, not later than March 12th, 1949. WALTER BARRETT, M.B.E., A.B.I.B.A., Caustic deshifted

WALTEE BARRETT. M.B.E., A.R.I.E.A., County Offices, Haverfordwest. 16th February, 1949. BOROUGH OF BACUP. AROHITECTURAL ASSISTANT. Applicatious are invited for the appointment of Architectoral Assistant in the Office of the Borouch Engineer and Surveyor. Apolicants must have had sound training by pupilage, and had previous experience in the design and construction of building works, particularly in relation to housing. Preference will be given to persons qualified by the examina-tion of the R.I.B.A. The salary will be in accordance with Grade IV, A.P. 4. T. Division, of the National Beales of Salaries (2480×215-2525 per annum). The appointment will be subject to one month's motice in writing on either side at any time, to the provisions of the Local Government Super-nuation Act, 1937, and the National Joint Council's Scheme of Conditions of Service, and to the selected candidate passing a medical ex-amination.

amination. Housing accommodation will be found by the Ceuncil for the successful candidate, if a married man and coming from outside the Borough. Applications, stating age, qualifications, pasi-and present appointments, with details of ex-perience, together with copies of two recent lessi-monials, should be sent to the undersigned not later than Friday, 11th March, 1949. O C BYEP ANY O. G. EVERATT, Town Clerk.

Municipal Offices, 1 15th February, 19 Bacup.

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Town Hall, Ealing, W.5.

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F. W. ROBERTS, Town Clerk

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Town Clerk. Town

Annual increments of 225 to a maximum of 2760 per annum, plus London allowance of £30 per annum. Applicants should possess approved qualifica-tions and experience, and preference will be given to those who are Members of the Royal Institu-tions of Chartered Surveyors (Quantitice Sub-Division). They should be capable of undertaking all stares of the work for the preparation of Ells of Quantities, including preliminary stimates, the preparation and settlement of final seconts, site measurement, and preparation of Misrim certificates. The appointment will be subject to the pro-vations of the Local Government Act, 1937, and the second applications, sisting age, qualifications and ex-medical examination. Applications, sisting age, qualifications and ex-prenece, and accompanied by copies of three recent testimonials, should be sent to the County Trahitect, Surrey County Council, County Hall, Ingston-upon-Thames, not later than the 12th Canvassing, either directly or indirectly, will convasting, a conditionation of the county county council.

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Clerk of the Council. Guncil Offices, Market Square, Stony Stratford, Bucks. Wh February, 1949. CITY OF SALFORD. Applications are invited for the appointment of Applications of the States Clerk of the States of the States application of the States of the States Proference will be given to applicants who have seased the Intermediate Examination of the LIBA, and have had experience in general architectural work and be able to prepare working desting the states of the s

Li B.A. and nove and be able to prepare working cracticitical work and be able to prepare working the popolitiment will be subject to: (1) The provisions of the Local Government Superanna-tion Act, 1937; (2) the National Joint Council tenene of Conditions of Service as adopted by the Generit; and (3) the passing of a medical maintaice. Applications, giving details of age, training and testimonials, and endorsed " Architectural Assi-nati," to be addressed to the City Engineer, Town Hall, Safford, 3, and forwarded so as to be method and the order of the withing whether of the method and offer and the subject of the cractifier of an officer of the authority. H. H. TOMSON Hence Lock. 1940

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signed not later than Monday, the 7th March, 1949. J. R. S. CREIGHTON, Surreyer, Council Offices, Parkgate, Yorks, W.R. 1829 17th February, 1949. WERT SUFFOLK COUNTY COUNCIL. COUNTY ARCHIFCT'S DEPARTMENT. APPOINTMENT OF DEPUTY COUNTY ARCHIFECT. Applications are invited for the appointment of DEPUTY OCUNNY ARCHIFECT at a salary on A.P.T. Grade VIII (2685-2760). commencing salary according to qualifications and experience. Applicates should be fully qualified, noferably Associates of the Royal Institute of British Archi-lects. and should have had considerable ex-perience of architectural design and construction, and be canable of the day-to-day work of the Department, which is mainly concerned with new school, police and health building work, and general maintenance and improvements of the County buildings; also possess organising ability and experience in the management of building contracts. The aporientement will be terminable by two parts that the side of the reminable by two parts the forming of the day to be the side, and will be partment, which is management of building ontracts.

contracts. The appointment will be terminable by two months indice in writing on either side, and will be subject to the provisions of the Local Govern-ment Superannuation Art, 1937. The successful candidate will be required to pass a medical ex-smination

Candidate will be required by be obtained from the aminatics. Forms of apolication may be obtained from the undersired, by whom applications, together with the names of two referees, should be received not later than Tuesday, the 16th March, 140. L. G. H. MUNRWY. Clerk of the County Council.

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Shire Hall, Burv St. Edmund's. 17th February, 1949.

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J. B. GRAHAM, Clerk of the County Council.

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Town Hall, Stoke-on-Trent. 22nd February, 1949.

A.P. & T. Grade I, Salary Scale £390-£435 per annum. The appointments will be subject to (i) the National Scheme of Conditions of Service, (ii) the provisions of the Local Government Spnerannua-tion Act, 1937. (iii) the passing of a satisfactory medical examination, and (iv) one month's written notice on either side. Canvassine, directly or indirectly. w'll definitely disqualify the candidate for the appointment. Applications are to be made on a form to be chlained from the County Architect. Mr. H. C.W. Strickland, F.R.I.B.A. Watton Offices, Brecon, South Wales, and must be returned to the under-signed not later toan 19th March, 1949. C. M. & WFLDE.

County Hall, Brecon.

C. M. R. WELLS. Clerk of the County Council.

Shire Hall, Bedford, 19th February, 1949.

Appendix and construction of schools and/or other public buildings.
 ASSISTANT ARCHITECTS (A.P.T. Grade IV, 4800-4525). Ability required in the proparation of detail drawings and specifications.
 ASSISTANT ARCHITECTS (A.P.T. Grade II. 4240-4455). Good training and neat drawfits manship required.
 The appropriate R.I.B.A. qualification in the above novie will be an advantage.
 Appointments are subject to the Local Government Superannuation Act, 1937. and to the Scheme of Conditions of Service of the National Joint Council.
 A special allowance of 25s. per week is paid to any officer who is unable to find honsing arcommendation and is forced to maintain his family in another home.
 Applications, on forms to be obtained from the County Architect, Shire Hall. Bedford. should be delivered to the undersigned on or before 14th March, 1949.
 J. B. GRAHAM.

2010 February, 1949. BEDFORDSHIRE COUNTY COUNCIL. ASSISTANT ARCHITECTS. Applications are invited for the following posts on the permanent staff of the County Architect. ASSISTANT ARCHITECTS (A.P.T. Grade VI, £959-£660). Experience required in the design and construction of schools and/or other public bnildings.

CAMBORNE-REDRUTH URBAN DISTRICT COUNCIL APPOINTMENT OF ASSISTANT ARCHITECTS AND ASSISTANT ENGINEER. Applications are invited for the undermentioned appointments in the Department of the Engineer and Sarvare

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and/or the Testamur of the Institution of Muni-cipal Engineers. The appointment will be subject to the National Joint Council scheme of Conditions of Service, and the Local Government Superannuation Act, 1937, and will be terminable by cns month's medice on either side. Applications, stating are, present and previous appointments held, torether with copies of three recent testimonials, should be forwarded in en-velopes, appropriately endorsed, addressed to Mr. N. Barrett, A.M.I.C.M. M.I.Mun.E., Engineer sid Surveyor, Council Offices, Camborne, so as to be received net later than first post on Wednes-day, 16th March, 1949. Applicants must disclose, in writing, whether er not they are related to any Member or Serving Officer of the Council. Canvassing will disqualify.

8. C. WILSON,

Connell Offices.	Clerk	10, The	Council.
Camborne, O 19th February, 1			1843

BOROUGH OF TORQUAY. Applications are invited for the poet of fUNIOR ARCHITECTURAL ASSISTANT in the Barough Sarveyor's Department at a salary of 2300×£15-£435 per anaum. Preference will be given to candidates possess-ing the R.I.B.A. inster examination. The appointment, terminable by one month's notice on either side, is arbicet to the National Scheme of Conditions of Bervice, and the pro-visions of the Local Government Superanaustion Act, 137.

visions of the Local Government Superanauation Act, 1937. The Council will endeavour to find living accoun-modation. If required, for the person apoolsted, Applications, giving details of duration, ex-perience, are, else, forether with conics of two percent testimonials, should be sent to the Berough Surveyor, Twon Hall, Torquay, not later than Saterday, 13th March, 1969.

rch, 1999. T. RLVED WILLIAMS. Town Clerk. 1849

18th February, 1949.

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF ASSISTANT ARCHITECTS. Applications are invited for the following

Applications are invited for the following appointments:-(a) ASSISTANT ARCHITECT. APT Grade V (salary scale £520-£570). Candidates should be preparing for Associate Membership of the R.I.B.A. and have good general experience in the design and construction of public buildings, including schools. (b) ASSISTANT ARCHITECT, A.P.T. III. (Salary scale, £450-£495). Candidates should be at the Intermediate stage of the R.I.B.A. examinations. The initial salary will be deformined accord-to experience.

of the R.I.B.A. examinations. The initial salary will be determined accord-to experience. Training at one of the recognized schools of architecture will be an asset. The factors will be an asset. The case of each arpointment, if the selected condition is a married, is unable to obtain a house in of near Northampton, and is connelled to maintain his family elsewhere, his salary will be temporarily increased by 25s, per week, iogether with such sum as will reimburse him for the cost of a third-class return railway ticket to his family's home once every two menths, his circumstances to be reviewed by the appropriate Committee of the Council every three months. The appointments will be determinable by one month's notice on either side and will be ablect to post and the council every three months. The appointments will be determinable by one month's notice on either side and will be ablect out a provision of the Local Government Super-annation Acts. Candidates should state for which post they wish to apply. Porms of application may be obtained from the County Architect, County Hall, Northampton, to whom applications, accompanied by a copy of one recent testimonial, must be delivered net later thas 'Else March, 1949. *L. ALAN TURNER.*

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Doanty	Hall.	Clerk	01	the	Coun	ty.	Council

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Northampton. 20th February, 1949.

COUNTY BOROUGH OF DERBY. BOROUGH ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments on the permanent staff in accord-ance with the National Scale of Salaries :-(1) ONE SENIOR QUANTITY SURVEYOR, Grade VI, A.P. & T. Division. Salary £595-

Chate VI, A.P. & T. Division. Salary £395– 2660.
 Applicants should be Chartered Quantity Surveyors or prospective, and have had experience in the preparation of quantities, specifications, eite measuring and estimates.
 Chate JUNIOR QUANTITY SURVEYOR, Grade IV, A.P. & T. Division. Salarv £460–£525.
 Applicants should be fully experienced in work-ing any final Accounts and the taking off of Minor Works.
 The appointments will be subject to ene month's notice in writing on either side, and to the terms of the National Joint Connecil's Scheme of Con-ditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the suedical examination.
 Form of application may be obtained from Thes. W. East, F.R.B.A., Borough Architect, The Council House. Corporation Street, Derby, and should be returned when completed, together vita opies of two testimonials. to arrive not later than Moday, flat March. 1940.
 ChasHTON, The Council Superannuation Act and the stater and the council superannuation action the street, Derby, and should be returned when completed, together vita copies of two testimonials. to arrive not later than Monday, flat March. 1940.

C. ASHTON, Town Clerk.

Town Clerk. Corporation Street, Derby. JOINT COUNTY COUNCIL OF PERTH AND KINROSS. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following

(v), with placing according to the second sec

and III) with placing according and experience. (d) ONE ARCHITECTURAL ASSISTANT for work on Housing. Salary scale and placing as

and experience. (d) ONE ARCHITECTUBAL ASSISTANT for work on Housing. Salary scale and placing as in (c) above. Applicants for the posts under (a) should prefor-ably have experience in the design and construc-tion of school buildings, and it is desirable that applicants for the posts under (a) and (b) should have experience in the office of a Local Authority and be able to take charge of building projects. A house can be made available to let. The appointments will be subject to the Local Government Superannation (Scotland) Act, 1937, and the successful applicants will require to pass a medical examination. Applications, stating port applied for, age, qualifications, experience and accompanied by copies of not more than three recent testimonials, should be ledged with the County Clerk. County, March. DECOUPER OF GEORENY.

BOROUGH OF GROSBY. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the following appointment on the temporary staff in the Department of the Borough Engineer and Sur-veyor.

Testimonials are not required, but applicants re required to submit the names of two Canvassing in any form will be a disqualifica-

tion

BAROLD O. ROBERTS. Town Clerk.

Town Hall, Waterloo, Liverpol, 22. 22nd February, 1949. FLEE COUL

Town France Liverpol, 22. 1538 23nd February, 1949. 1538 PIPE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the post of ARCHI-TECTURAL DRAUGHTSMAN. ipplicants musi-have had experience in an Architectural drawing office and he quick and accurate Drauerbeamen. Consolidated salary 2530, rising to 2430 per annum. Medical test under Superannasion Scheme. Anolications stating are, experience and qualifications, to us holged with the under-signed by 17th March, 1940. J. M. MITCHIELL, County Clerk.

County Buildings, Capar-Fife. 24th February, 1949. lxiv LIVERPOOL REGIONAL HOSPITAL BOARD Applications are invited for the following per-manent appointments in the Begional Architect's Department, on the Headquarter's Staff of the Board --

Manent approximate, on the Headquarter's Staff of the Board:(a) PRINCIPAL ASSISTANT ARCHITECT at a salary of £800×£25 to £950 per annum.
Applicants must be Associates of the Royal Intitute of British Architects, and preferably hold a University degree in Architectarce, must posses wide experience of hospital design and construction, and good administrative ability, and be capable of deputiaing for the Regional Architect.
(b) SENIOH ASSISTANT ARCHITECT, at a salary in accordance with A.P.T. Grade VIII, £665×£25 to £760 per annum.
Applicants must be Associates of the Royal Institute of British Architects and construction of hospitals and must be capable of carrying out and advising on large building contracts.
(c) ASSISTANT ARCHITECT at a salary in accordance with A.P.T. Grade VII.

Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience, and ability in design and construction. (d) SENIOR QUANTITY SURVEYOR at a salary of 2750×225 to 2550 per annum. Applicants must be members of the Royal In-stitute of Chartered Surveyors, and have had considerable experience in the preparation of estimates, specifications, bills of quantities, measuring variations and the checking of Snal accounts.

(e) ADMINISTRATIVE ASSISTANT at a salary in accordance with A.P.T. Grade II, £460 × £15 to £465 per annum. Applicants should have had experience in an Architect's Office, preferably with a Local Authority, and be thoronghly conversant with the routine administration of such a Department. All the above appointments will be subject to the National Health Service (Sucerannuation) Regulations. 1947/48, and the successful candidates will be required to undergo a medical examination. Applications, stating according to the subject to the subject to the National Health Service (Sucerannuation) Regulations. 1947/48, and the successful candidates will be required to undergo a medical examination.

tion. Applications, stating age, education, qualifica-tiona, experience, present and previous appoint-ments, salary, war service, and clearly stating the post applied for, torether with the names and addresses of three referees, should be sent to the undersigned at Alder Hey Hospital, Eatos Road, Livernool, 12, to be received not later than the 16th March, 1949.

VINCENT COLLINGE, Secretary to the Board, 1916

WARWICKSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the undermentioned appointments on the established staff: Section Leader Education, 2610-21,000. (b) SENIOR ASSISTANT ARCHITECTS, Grads VIII, £635-2760 per annum. (c) SENIOR ASSISTANT ARCHITECTS, Grads VII, £635-2710 per annum. (d) ASSISTANT ARCHITECTS, Grads VI. £556-2660 per annum.

(7) ASSISTANT ARCHITECTS, Grade V, £50-570 per annum. (7) ARCHITECTURAL ASSISTANTS, Grade (7) ARCHITECTURAL (9) ARCHITECTURAL £595

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(f) ARCHITECTURAL ASSISTANTS, Grade
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(g) ARCHITECTURAL ASSISTANTS, Grade
(g) ARCHITECTURAL ASSISTANTS, Grade
(h) Must be Registered Architects with considerable experience in the planning, design and construction of educational buildings and used
(h) and (c) Must be Registered Architects.
(h) and (c) Must be Registered Architects up to axiderable general experience in architectaral design and construction and the supervision of Assistants.
(g) and (e) Must be Registered Architects up to aix years standing.
(f) and (g) Should have passed R.I.B.A. Intermediate experimention of Assistants.

(f) and (g) Should have passed R.I.B.A. Intermediate examination with up to four years office experience.
(h) ASSISTANT LAND SURVEYOR, Grade V. 2550-2570 per annum, should be Associates of the R.I.C.S.
(f) BUILDING INSPECTOR, Grade VI, 2559-2570 per annum, must have extensive knowledge of all building trades and general supervision, able to prepare specifications, concise reports and proximate estimates.
(f) ASSISTANT QUANTIFY SURVEYOR, Grade V, 2520-2570 per annum, should be ARICS., with experience in measurement of variations and flat accounts.
(h) BUILDER'S SURVEYOR. Grade II. 2436 proparation of achedules for obtaining quotations, must have experience in the successful applicants will be required to pass a medical examination.
The appointments are subject to the provision of the Local Government Survement S

L. EDGAR STEPHENS, Clerk of the Council.

Shire Hall. Warwick. 23rd February, 1949.

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me secretary. North-Eastern Regional Hospital Board, 1, Albyn Place, Aberdeen, on or before Int March, 1949. 1920
 NORFOLK COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT.
 Applications are invited for the following appointments : TYVE SENIOR PLANNING ASSISTANTS.
 Saary A.P. & T. Grade Va (£550-£610). Appli-cants about have passed the final examination of the Town Planning Institute, the Institution of Civil Engineers, the Institution of Chartered Burveyors or the Royal Institute, the Institution of Civil Engineers, the Institution of Chartered Burveyors or the Royal Institute of British Architects, or hold a University Degree in a suit-able subject. They should also have had good general experience in the work of a planning department, including development control, sur-rey, planning proposals and committee pro-cedure. (Pour positions in Norwich, 1 position in King's Lyan).
 TYE INTERMEDIATE PLANNING ASSISTANTS. Salary A.P. & T. Grade III (\$450-2495). Applicants should have passed the Intermediate examination of one of the pro-ressional bodies referred to in (1) abve, and have had good general experience in the work of a planning department, including the eloyment control, survey and committee proceedure. (Three planning department, including the eloyment develop department, including the eloyment develop. Professional bodies referred to he down Experience in field survey and he de county Council's cale. The persons and and the professional bodies referred in the revision of Ordnance Maps will also be a advantage. (Both positions in Norvich).
 The persons appointed to (1) and (2) will be required to provide and maintain a motor car.
 The polontments subject to the provide and maintain a motor car.</lin

tion. Forms of application may be obtained from the Clerk of the Norfolk County Council, County Offices, Thorpe Road, Norwich, and must be completed and returned to him not later than 10 a.m. on Friday, 18th March, 1949. 1915

2016 CORPORATION OF LONDON CONTINUES OF A RECEIPTION OF LONDON CONTINUES OF A RECEIPTION OF LONDON CONTINUES OF A RECEIPTION OF A RECEIPTI

NEATH BUBAL DISTRICT COUNCIL APPOINTMENT OF TWO ENGINEBRING ASIBTATE BASIBTATE BASIBTATE BASIBTATE BASIBTATE ADJICATIONS AND SULVEYORS DEPARTMENT. ADJICATIONS are invited for the above per-ment appointments at salaries in accordance with Grade III of the A.P.T. Grade Division of the Aational Scales of Salaries (2450 per annum, lising by three annual increments of C15 to 2490 per annum. ADJICATION AND SULVEY AND AND AND AND ADJICATIONAL SCALES OF SALARIES (2450 per annum, by out and setting-out of housing estates, of sworage and water Suppy Schemes. Preference will be given to Candidates possessing the Inter-netions of the Local Government Superannustion of Manicipal Engines. The appointments will be subject to the pro-visions of the Local Government Superannustion of the Local Government Superannustion and the terminable by one month's unation as experience, together with copies of three operations, statents," and must reach the and the enclosed in an envelope endored "Basines in the terminable by one states, the and the enclosed in an envelope endored "Basines in the the the 16th Astro, 1940. "Deve to the Local Covernment Superannustion and the sence the the the 16th Astro, 1940. "Deve to the covernit Superannustion and the sence the the the the 16th Astro, 1940. "Creat to the operand and the the terminable by and must reach the and the sence the that the 16th Astro, 1940. "Creat to the astron." "Creat to the astron."

8, New Street, Neath.

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D. J. OSBORNE, Town Clerk.

Assistant (Education)." D. J. OSBORNE. Town Hall. Levirn, E10. 18th February. 1949. 18th February. 1949. 18th February. 1949. 18th February. 1949. A.P.T. Applications are invited for the aopointment of an ARCHITECTURAL ASSISTANT, GRADE IV. A.P.T. Applications are invited for the aopointment of an ARCHITECTURAL ASSISTANT, GRADE IV. A.P.T. Applications are invited for the aopointment of an ARCHITECTURAL ASSISTANT on the per-ment. at a salary in Grade IV A.P.T. (2460×£15 - 4525, plus London Weighting). The appointment is ferminable by one month's motice in writing on either side. and will be sub-ject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be given to Associate Members of the Royal Institute of British Architects. and applications giving age, qualifications and details of training, experience, present and previous appointments with salaries, accompanied by copies of two recent testimonials, should be addressed to the undersined and be delivered not later than 19th March, 1949. Canvassing, directly or indirectly, will be a disqualification. The Council will endeavour to provide the suc-cessful candidate with housing accommodation if deemed necessary. HAROLD E. BARRETT. Town Clerk. Municipal Offices, New Malden, Surrey.

HAROLD E. BARR FT. Town Clerk. Municipal Offices, New Malden, Surrey. 23rd February, 1949. COUNT OF ESSEX. ILFORD BOROUGH COUNCIL. Applications are invited for the post of ARCHI-TECTURAL ASSISTANT. A.P.T. Division. Grade III, on the staff of the Essex County Council, to work in the office of the Borough Engineer of Ilford, to deal with Education Architectural work within the Borough. Applicants for this post should have had a good general training and experience.

should have had a good good on a form to be experience. Application must be made on a form to be obtained from the Boronch Education Officer. and returned to him at the Town Hall. Ilford. together wish copies of not more than three recent lessi-monials, within fourieen days of the appearance of this advertisement. K. P. B. NICHOLLS. Toosa Clerk.

Town Hall, Ilford.

COUNTY BOROUGH OF GREAT YARMOUTH. BOROUGH ENGINER'S DEPARTMENT. Applications are invited for the following per-manent appointments :-TWO GENERAL ARCHITECTURAL ASSIS-TANTS. A DE CARL YM (2000) AND (2000) TANTS.

TANTS. Salary, A.P.T. Grade IV (£480-£525). Applicants for these posts should have passed the Intermediate Examination of the R.I.B.A. Forms and particulars can be obtained from the undersigned on receipt of a stamped/ addressed envelope, and applications should be submitted not later than Friday, 18th March, 1949. FARRA CONWAY, Town Clerk.

1938

1934

Town Hall, Great Yarmouth. 19th February, 1949. DBE/DAB.

DBE/DAB. BAST SUPFOLK COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the appointment of a PLANNING ASSISTANT in the County Planning Officer's Department. The salary will be within the A.P.T. Division Grade II (£420-£465 per annum) of the National Joint Council's scale, with scale all wance for the use of a motor car; and will be determinable by one moth's notice on either side. Preference will be given to those applicants who hold the Final Examination of the Town Plan-ning Institute.

Preference will be given to find the Town run-hold the Final Examination of the Town run-ing Institute. Applications endorsed "Planning Assistant," stating age. experience, qualifications, present position, and giving names and addresses of two referees, to be delivered to the undersized not later than the first post 18th March. 1949. G. C. LIGHTFOOT, Clerk of the County Council. 1934

County Hall, Ipswich.

Clerk of the County Council. Ipswich. 1934 COUNTY BOROUGH OF ROTHERHAM. CHIEF ABCHITECTURAL ASSISTANTS. Apolications are invited for the appointment of TWO CHIEF ARCHITECTURAL ASSIST TANTS in the office of the Brrowsh Enzinest at salaries of £65 rising by annual increments to £760 per annum. Apolications must be Associate Members of the R.I.B.A. and have high ability in desize. The Architectural work in the department is very varied and consists of Educational. Hous-ing Health and other types of Local Authority Buildings, and the volume of work is rapidly expanding. The appointments will be subject to the Con-ditions of Service adopted by the Council and based on the National Scheme of Conditions of Service, and will be determinable by one month's notice on either side. The posts are superannuable and the candidates and the subject to the service of the ancidates and the determinable of work is rapidly count of Service adopted by the Council and based on the National Scheme of Conditions of Service, and will be determinable by one month's notice on either side. The posts are superannuable and the candidates and the determinable on the conditions of passe a Medical Examination. HOIRING ACCOMMODATION will be made available for the successful applicants if required to passe a Medical Examination. The Council deliberate omission t disclose any euch relationship will disqualify any candidate. Canvassing of Members of the Council, whether direct or indirect, will disqualify any candidate. Topications endorsed "Chief Architectural Assistants," sating age, qualifications and details of experience, accompanied by eoples of three resent testimonials, should be delivered to the undersigned not later than 25th March, 1947. Municipal Offices, Rotherham, Yorks.

JOHN S. WALL. Town Clerk. Municipal Offices, Roterham, Yorks. MANCHESTER REGIONAL HOSPITAL Applications are invited for the following appointments on the Board's Headquarter's Staff:-SENIOR QUANTITY SURVEYOR (Grade VIII, £685×£25-£760 per annum). Applicants must be members of the Royal Institute of Chartered Surveyors and should have had a wide experience in the preparation of estimates, speci-fications and bills of quantities, measuring 'of variations and checking of final accounts. SENIOR LAND SURVEYOR (Grade VIII, £685×£25-£760 per annum). Applicants must be Associates of the Royal Institute of Chartered SURVEYOR (Grade VIII, £685×£25-£760 per annum). Applicants must be Associates of the Royal Institute of Chartered Surveyors, with wide experience in rating and operties. DEVIOR ADVINISTRATIVE ASSISTANT

Surveyors, with whole experience in facing and valuation, preparation of surveys of lands and POPPTies. SENIOR ADMINISTRATIVE ASSISTANT (Grade VII, £635×£25-£710 per sanum). Applicants must have had considerable ex-perience in office administration, preferably in an Architectural Denartment. ASSISTANT ARCHITECT (Grade VI, £955 ris-ing to £660 per annum). Applicants must be Associates of the Royal Institute of British Archi-tects, with experience in modern hospital design and construction. Preference will be given in all cases to candi-dates with local or public authority experience. The appointments are subject to the National Health Superannuation Scheme. Applications stating post applied for, are, qualifications and addresses of three referees. should be recived by the undersigned not later than 12th March. 1949.

J. GIBBON, Secretary of the Board. Manchester, 3.

MERIONETH COUNTY COUNCIL. Applications are invited for the following appointment in the County Planning Depart-ment: EXIOR PLANNING ASSISTANT. Salary 2450, rising by 3 annual increments of £15 to a maximum of £495. Applicants should have experience in all matters apportaining to the planum, of a large rural area. The County of Merioneth includes over 500 square miles of potential National Park and the vork offers special opportunities in this field. An appreciation of the problems of such an area is metainable.

appreciation of the problems of such an area is desirable. The second of the problems of such an area is the second by the second of the theory of the theor

HUGH J. OWEN, Clerk of the County Council.

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G. N. C. SWIFT. Clerk of the County Council.

Pebruary, 1949.

Clerk of the County Council. <u>Bebruary, 1949.</u> CITY AND COUNTY OF BRISTOL. CITY AND COUNTY OF BRISTOL. CITY AND COUNTY OF BRISTOL. CARDIdations invited from qualified ARCHI-TECTS for appointment of Section Head (Health). Candidates must be Senior Mombers of the Boyal Institute of Brit'sh Architects with con-diferable experience in the planning of buildings of the type normally required by a Local Health Authority. Candidates must be capable of attend-ing Committees, preparing reports and comptent to take charge of the design and construction of such buildings, and should have had experience in the control of a number of Senior and Junior Inchitectural Staff engaged upon such work. Caponiment subject to the provisions of the Local Government Superannation Acts, 1937 and 1939, and the successful applicant be required to puss medical examination, Appointment also ter-minable by one month's notice in writing on ether side.

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Magle House, Colston Avenue,

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 CITY OF WARFFIELD.
 CITY OF WARFFIELD.

 CITY ENGINEER'S. DEPAPTMENT.
 TOWN PLANNING ASSISTANT.

 Applications are invited for the annointment of a SENIOR TOWN PLANNING ASSISTANT.
 Applications are invited for the annointment of a SENIOR TOWN PLANNING ASSISTANT.

 Amd.P. (. F520-2570). applicants should be A.M.T.P. (. The appointment will be subject to the Local Government Superannuation Act. 1937. and the he passing of a medical examination.

 Candidates must state in writing whether to their knowledge they are related to any member or senior office of the Corporation. Canvassing will be a disqualification.

 Assing are, qualifications, present and previous appointments, and experience, should be sent, tocether with copies of two testimonials, to the wedersigned not later than Saturday, 19th March. 1649.

 The Connetil will give consideration to the pro-vision of HOUSING ACCOM WORDATION. W. & DES FORGES. Towe Clark.

 The connetil will give consideration to the pro-vision of HOUSING ACCOM WORDATION.

 W. & DES PARGES. Towe Clark.

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Town Hall. Wakefield. February, 194 1040.

CITY OF COVENTRY. Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Department :-(a) TWO ASSISTANT ARCHITECTS. Salary on Grade A.P.T. Y, commencing at 2520 per annum and rising to 2570 per annum. Candidates for the above appointments should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifica-tions.

British Althouse, and ARCHITECT. Salary on Grade A.P.T. IV, commencing at 4400 per annum and rising to £525 per annum.
(a) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T. II, commencing at £420 per annum and rising to £465 per annum. Salary increments are subject to satisfactory service.

Balary increments are subject to satisfactory service. The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act. as amended in regard to annuities to wilows by the Coventry Corporation Act, 1936, and a satisfactory certifi-cate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Wilows' and Orphans' Pension Fund. Applications for the above appeintments must be made on the forms obtainable from the under-together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Wednes-day. 23rd March, 1949. Canvassing, directly or indirectly, will be a dis-qualification.

qualification. D. E. E. GIBSON, City Architect.

IA, Warwick Row, Coventry. 3rd March, 1949. CITY AND COUNTY OF KINGSTON-UPON-

 3rd March, 1949.
 1853

 CITY AND COUNTY OF KINGSTON-UPON-HULL.
 Applications are invited for the following appointments on the staff of the City Architect.

 (a) ASSISTANT ARCHITECTS, A.P.T. Grade

 111 (2450-2435 per annum).

 (b) ARCHITECTURAL ASSISTANTS, A.P.T.

 Grade I (2355-2435 per annum).

 (c) ASSISTANT ARCHITECTS, A.P.T. Grade

 111 (2450-2435 per annum).

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

 Grade I (2355-2435 per annum).

 Applicants should have good general architec-tural ability and experience.

 The office is an up-to-fate- and progressive one staff are not confined to one Section of the Department is varied and of great interest. Members of the staff are not confined to one section of the Department, but are given every onportunity of assist-ing with and gaining valuable experience in all classes of architectural work.

 Applicaties should not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces).

 The appointments will be subject to one moth's notice on either stile, to the National Scheme of Conditions of Service, and the Local Government Superanuation Act, 1937.

 Application forms, obtainable from the under-signed, should be returned completed on or before 1940 March. 1949.

 ANDREW RANKINE, A.B.I.B.A.

19th March. 1949. ANDREW RANKINE, A.R.I.B.A.. *City Architect.*

Guildhall, Kingston-upon-Hull.

 Guidhall,
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 IANCASHIRE COUNTY COUNCIL,
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 IANCASHIRE COUNTY COUNCIL,
 ADDICASHIRE COUNTY COUNCIL,

 Applications are invited for the following appointments on the permanent staff: (a) RENIOR ASKISTANT ARCHITECTS.

 (a) RENIOR ASKISTANT ARCHITECTS.
 Grade VI. Salary 2536-2640 per annum.
 (b) ASKISTANT ARCHITECTS. Orade V.

 (b) ASKISTANT ARCHITECTS. Orade V.
 Salary £520-570 per annum.
 The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writine on either side.

 Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, P.R.I.B.A., M.T.P.I. County Offices, Preston. to whom they shrift be refurred, accommanied by copies of three recent testimonials, to arrive not later than Saturday, 12th March.

 B, H. ADCOCK.
 B, H. ADCOCK.

 March.

R. H. ADCOCK. Clerk of the County Council. County Offices,

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BERKSHIRE COUNTY COUNCIL. Applications are invited for the following opointments in the County Architect's Departapp

theroughly detail drawings, such that the existing working and detail drawings, such that the existing of both new buildings and alterations to existing buildings.
 PRINCIPAL ENGINEER. Salary Grads of the Institution of Heating and Ventilating installations in all Council properties and also be able to prove the existing installations in all Council properties and also be able to prove the existing installations in all Council properties and also be able to prove the existing installations in all Council properties and also be able to prove the existing installations in all Council properties and also be able to prove the existing installations in all Council properties and also be able to prove the existing installation of the exist institution of the exist insthe exist institution of

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Shire Hall. Reading.

MIDDLESEX COUNTY COUNCIL Applications are invited for the fo ppointments in the County Architect's following Departapp

appointments in the ment:— ARCHITECTS. (a) SENIOR ASSISTANT ARCHITECTS; (b) SENIOR ASSISTANT ARCHITECTS; A.P.T. Grade VIII, commencing salary 2715 p.a. × 225-2790 p.a. Must be qualified Architects with wide experience in the design, planning and construction of school buildings. (b) ASSISTANT ARCHITECTS; A.P.T. Grade VII, commencing salary 2665 p.a. × 275-2740 p.a. Must be qualified Architects with high ability in design and able to take charge of large contracts.

VII. commencing salary according to the structure of the structur

and experience).
ENGINERRS.
(e) SENIOR AREA STRUCTURAL ENGINEERS. A.P.T. Grade VIII. commencing salary 2715 p.a. × 225-2790 p.a. Must be experienced in design of structural steelwork and reinforced concrete and be capable of taking charge of subsection under general supervision of Chief Structural Encineer.
(f) SENIOR AREA HEATING ENGINEERS. A.P.T. Grade VIII, commencing salary 2715 p.a. × 225-2790 p.a. To take charge of a staff of engineers designing heating, domestic hot water, ventilation, gas and kitchen installations, ander the ceneral supervision of Chief Engineer.
(g) SENIOR AREA HEACTING ENGINEERS, A.P.T. Grade VIII, commencing salary 2715 p.a. × 225-2790 p.a. To take charge of a staff of engineers designing leetric lighting and power installations under general supervision of Chief Engineer.
(h) HEATING ENGINEERS, A.P.T. Grade VI (fe65-2690 p.a.). Thoronghy experienced in design of beling domestic hot water ventile.

Chief Kngmeer.
 (h) HKATING ENGINEERS. A.P.T. Grade VI (\$65-2690 p.a.). Thoronghly experienced in design of heating, domestic hol water, ventila-tion, gas, kitchen installation and enzineering services generally, including apecifications and empervision of contracts, etc.
 (i) FLOCTRICAL ENGINERS. A.P.T. Grade VI (\$625-2690 p.a.). Thoronghly experienced in design of electric lichting and power installation, including specifications and supervision of con-tracts. Experience in electric lifts and refrigera-tion an advantage, etc.
 All salaries quoted include London Weighting for 26 years and over. Established and pension-able staff subject to medical fitness.
 Apolication forms to be obtained (stamped addressed envelope required) from The Constry Architect. 10. Great George Street, Westminster.
 (b) Evanseine discussion (2005) (2016

MEBIONETH COUNTY COUNCIL. COUNTY ABCHITECTS DEPARTMENT. Applications are invited for the following per manni appointments in the County Architect's

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Departments :-(a) CHIESF ASSISTANT ARCHITECT. Masry A.P.T. Grade VII, commencing at £635 per annum and rising to £710 per annum. Applicanties should be registered Architects and machinects with considerable exportence in the design of educational buildings and handling of contracts. Housing accommodation is available in the County if required, for the successful applicant in respect of this particular appoint-ment.

A County if required, for the successful spicant in respect of this particular appointment. (a) ONE ASSISTANT ARCHITECT. Balary A.P.T. Grade VI, commencing at 2596 er aname and rising to 2660 per annum. Appicants should be registered Architects and members of the Royal Institute of British Archi-ices, with experience in the proparation of sur-verse and design of buildings, preparation of sur-verse and design of buildings, preparation of supervision of baildings in course of erection. (c) ONE ARCHITECTURAL ASSISTANT. Balary A.P.T. Grade II, commencing at 2420 er anum and rising to 2465 per annum. Appicants should have guod experience of work wide a supervision of baildings in course of erection. (c) ONE ARCHITECTURAL ASSISTANT. Balary A.P.T. Grade II, commencing at 2420 er anum and rising to 2465 per annum. The appoint successful candidates asti-materiate by a Local Authority and preference intermediate examination of the Royal Institute and the successful candidates asti-buter detical examination by the successful candidates asti-buter detical deta and the successful candidates asti-buter detical deta and the successful candidates asti-buter detical deta and the successful candidates asti-buter detical of the successful candidates asti-buter detical deta deta annuation by the annual (a) and to one month's notice on ather side in the cases of (b) and (c). Applications in envelopes aperopriately en-sign the names of two references, and accompanied to action side of the sturday. Such areas of successful candidations, ex-plications in envelopes aperopriately en-pointment (a) and to one month's notify en-tions of the Local business appropriately en-tions of the the rest appointments, and giv-miter side not later than Sturday. Such areas of two references, and accompanied to achder side of the county Council. Applications of the successful and counter side approximation and the succession of the accession of the the successful appointments and giv-mater of the counter the successful appointmenter

he undersigned not later than Saturday, 19th March, 1949. HUGH J. OWEN, Clerk of the County Council. County Offices. Dolgelly, Merioneth. 18th February, 1949. METROPOLITAN BOROUGH OF LEWISHAM. APPOINTMENT OF ARCHITECTURAL APPOINT APPOINT APPOINT APPOINT APPOINT APPOI

be 2570 per annum, plus London versus. The apoointment will be subject to the rules and regulations of the Council from time to time and regulations of the Council from time to time is them eof Conditions of Service; to the National whether of Conditions of Service; to the National whether of Conditions of Service; to the National whether of Conditions of Service; to the National whether and to termination by one month's notice and regulations of the Council's Medical Officer of the late and to termination by one month's notice at the Local Government Superannustion Act, is the satisfactory passing of a medical medical the satisfactory passing of a medical medical the satisfactory passing of a star-sect the satisfactory passing of a star is the first star and the the satisfactory and start qualifications, and preference will be detern and construction of housing estates and medical construction of housing estates and and construction of housing estates and asistent Class II." So as to be received not late the starday, the 19th March, 1949. Canadifications. ALAN MILNER SWITH. Town Clark. Levishan Theor Hall. 1930

VYVORS. Salary A.P.T. Div. Grade VI. £596-2660. Anolicants must be competent to prepare Bills of Quantities for large contracts and experienced in all branches of Quant'ty Surveying practice. The selected applicants will be required to pass a med'cel examination and the appointments will be solvert to the usual conditions applicable to Local Government Service. Previous experience of Local Government work is not essential. Anolications ziving date of birth, particulars of training and experience, etc. with conies of two recent testimonials, should be received by J. E. Pirceit. P.R.I.B.A. City Architect. City Archi-tect's Department, Kingsway, Stok-con-Trent, en-opered with the title of the annonimment applied by MARRY TAYLOR. HARRY TAYLOR.

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Town Hall, Stoke-on-Trent. 2010 Pebruary, 1949.

CITY OF BIRMINGHAM EDUCATION COMMITTEE. Applications are invited for permanent appoint-ment to the following vacancies in the Architect's Branch of the Birmingham Education Department (Architect to the Committee : Mr. Alex. Steele, A.B.I.B.A.) :--

(Architect to the committee: at: ArcA. Second A.R.I.B.A.):-SENIOR ASSISTANT ARCHITECTS. A.P.T. VII (£635-£710), and A.P.T. VI (£595-£660). Experience in the preparation of sketch plans, working drawings and the supervision of building

Experience in the preparation of sketch plans, working drawings and the supervision of building contracts necessary. ARCHITECTUSAL ASSISTANTS. A.P.T. III (£450-£495), and A.P.T. I (£390-£435). Experience in the preparation of working draw-ings and details necessary. BENIOL ASSISTANT QUANTITY SUR-VEYOR. A.P.T. VII (£555-£710). Experience in the preparation of Bills of Quantities for major contracts and the settlement of nual accounts necessary. MEATING ENGINEERING ASSISTANT. A.P.T. III (£450-£495). Candidates must have had experience in the calculation and preparation of heating schemes for buildings of a general character, and be good draughtsmen with previous experience in a large drawing office. Application forms, which may be obtained from the undersigned on receipt of a stamped, addressed envelope, must be returned not later than a fortnight after the appearance of this advertisement. E. L. RUSSELL, *Chel Education Officer*. E. L. RUSSELL, Chief Education Officer.

Education Office, Margaret Street, Birmingham, 3. 1894

THE COUNTY COUNCIL OF THE COUNTY OF CLACKMANNAN, PLANNING STAFF. Applications are invited for the following per-manent appointment in the Town Planning Sec-tion of the County Architect's Department :---PLANNING ASSISTANT, Saiary scale (A.P.T. Grade V), £520-£570, inclusive of all bonus.

(A.P.T. Grade V), £520-£570, inclusive of all bonus. Candidates should preferably be Associate Members of the Town Planning Institute or hold a professional qualification in Civil Engineering, Architecture, or Surveying; and should have ex-perience in the preparation of basic surveys and development plans, and should be conversant with the Town and Country Planning (Scotland) Act, 1947, and the various regulations and orders. The appointment will be subject to the Local Government Superannation (Scotland) Act, 1937, and the person selected will require to under-go a medical examination prior to appointment. Applications stating age, qualifications and ex-meriance, with one copy of three recent testi-gound be lodgred with the County Clerk, County Buildings, Allos, not later than 15th March, 1949.

County Bui March, 1949.

County Buildings, Alloa, not later that 15th March, 1949. ISSN 1800, not later that 15th March, 1949. ISSN 1800, not later that 15th March, 1949. ISSN 1800, not later that 15th CUESHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. APPOINTMENT OF PLANNING STAFF. Applications are invited for the following appointments which are on the permanent estab-lishment of the County Planning Department. The posts are subject to the Local Govern-ment Superannuation Act, 1937. and the success-ful applicants will be required to act under the direction of the County Planning Officer and, in the case of area appointments, under the direction of the Area Planning Officer in the preparation of the Area Planning Officer in the preparation of development under the Tawn and Country Planning Act. 1947. (a) SENIOR PLANNING ASSISTANT-HFAD QUARTERS, CHESTER. Salary A.P.T. V-VI (2520-2660). Applicants should be corporate members of the Town Planning Institute, and preference will be given to those possessing an additional recognised qualification in architectre or engineering. They must also have had considerable experience in all aspects of statutory planning, development control and planning procedure. (b) PLANNING ASSISTANTS-SALARY A.P.T. III-IY (2450-255). The and the intermediate examination for equivalent) of one of the recognised institutions, and preference will be given to candidates who have had training in archite-tre, and some ex-perience in Town and Country Planning. The successful applicants will he stationed in the following areas:-Northwich. Nantwich, Sary A.P.T. III (230-2465). Applicants should indicate the applicant's applications should indicate the applicant's

ning, architectural, surveying of the stationed in office. The successful applications will be stationed in Northwich, Nantwich, Stockport and Altrincham, and all applications should therefore indicate the applicant's preference. Forms of application, together with details of the duties and conditions attaching to the appointments, may be obtained from the under-signed on receipt of a STAMPED AND ADDRESSED FOOLSCAP ENVELOPE. The last date for the receipt of completed appli-cations is Saturday, the 19th March, 1949. KENNETH O, MALE.

KENNETH O. MALE. County Planning Officer. Chester.

COUNTY BOROUGH OF ROTHERHAM. ASSISIANT BOROUGH ARCHITECT. Applications are invited for the post of ASSIS-TANT BUROUGH ARCHITECT in the office of the Borough Engineer at a salary of 2760, rising by annual increments to a maximum of £910 per annum.

the Borough Engineer at a salary of £760, rising by annual increments to a maximum of £910 per sanum.
Applicants must be Associate Members of the R.I.B.A. and preferably a holder of a degree in Architecture from a recognised school.
The department is responsible for carrying out all building work of the Corporation, including large housing and educational programmes, and the successful applicant will be required to exercise a general supervision over stan engaged on this work (with particular emphasis on design) under the direction of the Borough Engineer and Deputy Bcrough Architect, in addition to the direct control of a major project.
The appointment will be subject to the Conditions of Service adopted by the Council and based on the National Scheme of Conditions of Service and will be determinable by one month's notice on either side.
The Medical Examination.
HOUSING ACCOMMODATION will be availed to eave the subject of the successful applicant if required to eave and will be conneil and be for the successful applicant if required.
Applicants must state whether they are related to any member or officer of the Rotherham County Borough Conneil, deliberate omission to disclose any subter testionship will disqualify any candidate.
Applications endorsed "Assistant Borough Architect" stating age, qualifications and details of experience, accompanied by copies of three recent testimonials, should be delivered to the during age, qualifications and details undersigned not late that acts March, 1949.

Municipal Offices, Rotherham, Yorks. 1906

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J. W. PORTER, Town Clerk.

Town Hall, Gateshead, 8.

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 DURSLEY RURAL DISTRICT COUNCIL.
 ARCHITECTURAL ASSISTANT

 Applications are invited for the appointment of

 ARCHITECTURAL ASSISTANT in the Department of the Engineer and Surveyor, at a salary

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 Scale of Salaries (480-6525), tracther with

 traveline all wance upon the appropriate scale.

 The appointment will be for a period not exceeding two years in the first instance, but subject to one month's notice on either side at any time, or local government officer.

 Amplicants should have had experience in frameral architectural work, house planning and travemes and snotifications, and must possess.

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Council Offices, Kingshill, Dursley, Glos. 21st February, 1949. 1861

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SALOP COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments to established posts in the Depart-

meat.
ARCHITECTURAL.
(a) CHIEF ASSISTANT ARCHITECT. Salary 2735 to £810 p.a.
(b) SENIOR ASSISTANT ARCHITECTS.
A.P.T. Grades V.VA. Salary £520 to £610 p.a.
Applicants for post (a) must be members of the isi. I.S. and have had a wide experience in the design and construction of educational building.

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G. C. GODBER, Clerk of the Council.

Shrowsbury. February, 1949.

Tebruary, 1949. 1929 NORTHAMPTONSHIRE COUNTY COUNCIL COUNTY ARCHITECTS DEPARTMENT. APPOINTMENT OF MAINTENANCE OFFICER. Applications are invited for the appointment of MAINTENANCE OFFICER for the maintenance of police buildings, including houses, police stations and courts, in the County of Northamp-tonshire. Applicatis should have had previous experience in supervision of maintenance work, with some experience in draughtsmanship and the proparation of plans and the settlement of accounts.

with some experience in draughtemanehis and the proparation of plans and the settlement of accounts. The salary will be in A.P.T. Grade Y. 2520-Error according to qualifications and orperience. Taviling allowances will be paid in accordance with the consult's approved scales. The appoint on either side and the solected candidate will be equired to pass a medical examination before on either side and the solected candidate will be equired to pass a medical examination before on either side and the solected candidate will be equired to pass a medical examination before on either side and the solected candidate will be equired to pass a medical examination before on either side and the solected candidate will be equired to pass a medical examination before on either side and the solected candidate will be to basin a house in or near Northampton and is compelled to maintain his family cleavener, his salary will be temporarily increased by 25, per week together with acch aun as will re-main a phorphicate Committee of the Connel error three months. Canada the appropriate Committee of the Connel error three months. Taking ace, qualifications and previous experience, accompanied by a copy of one recent testimonia the names, status and addresses of two persons to whom reference can be made, must be horting the top of the connel connel top of the names, status and addresses of two persons to whom reference can be made the the two theorem the same the test than the names, status and addresses of two persons to whom reference can be made the test than the top the connel top the connel connel to the Connel top the connel top the same taken than the top the former to the connel top the top the connel to the the top the former top the connel top the top the connel top top the top the connel top top top the top the connel top top the top the top top the top the top top top the top top the top the top the top top top top top the top top top the top top the top the top the top top top the top top the top the top the top the to

J. ALAN TURNER, Clerk of the County Council.

1936

County Hall, Northampton. 26th February, 1349.

ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART. FOREST ROAD, WALTHAMSTOW, E.17. The Governors invite applications for the per-manent fall-time posts of --(a) STUDIO MASTER AND LECTURER IN ARCHITECTURAL DESIGN. Ability to take classes in technique of presentation will be an advantage. The post involves studio and lecture work in connection with the full-time courses of study for the Examinations of the Royal Institute of British Architects.

arvantage. The post involves studio and lecture work in connection with the full-time courses of study for the Examinations of the Royal Institute of British Architects.
 (b) LECTURER IN BUILDING SCIENCE.
 (c) LECTURER IN STRUCTURAL ENGI-NEERING SUBJECTS. The post involves in-struction and the supervision of design and draw-ing classes in connection with the full-time course of studies for the Examinations for the Institution of Structural Engineers. Salary scale in each case 2500×C15-255, with the addition of a London allowance of £35 or 248, according to age, plus allowances up to £45 for recognised full-time training and £20 for graduateship qualifications. In fixing the basic salary up to twelve increments may be allowed for suitable professional experience. Applications (no forms), griving full particulars of training, qualifications and experience, should be aubmitted to the Clerk to the Governors at the College within two weeks of the sppearance of this advertisement.

B. E. LAWRENCE, Chief Education Officer.

1028

County Offices, Chelmsford.

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

County Hall, Maidstone. 22nd February, 1949. 1942

COUNTY OF LINCOLN-PARTS OF LINDSEY. COUNTY ABCHITECTS DEPARTMENT. BUILDING SURVEYORS/INSPECTORS. Applications are invited from persons having a sound practical knowledge of building, and able to prepare brief specifications and rough estimates for maingenance and small building works. The successful applicants for the three posts may be required to reside in a particular area of the County and all applicants will be required to pro-vide their own car for which an allowance for an 8-h.p. car will be allowed on the County Council scale. The appointments are superannuated, salary

scale. The appointments are superannuated, salary in accordance with APT. Grade IV, commencing at 2430 per annum, rising in four years to a maximum of 2525, plus £20 per annum office expenses if living in a particular area. Particulars relating to the appointment and application forms can be obtained from the under-signed, completed forms are to be returned not later tham Tuesday, 22nd March, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I., County Architect.

1644

County Offices, Lincoln.

HEREFORDSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments on the Permanent Staff :--"Wo ASSISTANT ARCHITECT'S, Grade VIII, A.F.T. Division, £686 by £25 to £760 per annum. Candidates must be Associate Members of the L.B.A. and be able to take charge of a section of the drawing office. The appointments will be subject to the provi-tions of the Local Government Superannuation the drawing office. The appointments will be required to pass a medical examination. Torne of applicationations. Torne of applications. Torne of applications. Completed applications for the county Architect by not later tions after the county Architect by not later tions and the county Architect by not later tions and the county Architect by not later

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-£660). Candidates. must be Registered Architecta, preferably A.R.I.B.A., with experience in design and construction of public buildings, including

ASSISTANT MAINTENANCE SURVEYOR on Grade II of the National Salary Scales £420×£15

-£465). Candidates should have passed the Intermediate Examination of the R.I.B.A. or R.I.C.S. and have

Examination of the R.I.B.A. or R.I.C.S. and have had experience on maintenance and minor vorks and surveys of sites and buildings. The appointments will be subject to the pro-visions of the Local Government Superannasion Act, 1937, and to the National Scheme of Con-ditions of Service, and will be terminable by one calendar menth's notice on either side. In approved cases, the County Council are prepared to assist newly appointed members of the staff to meet removal and other expenses. Applications, on forms to be obtained from the County Architect, The Castle, Winchester, should be returned to him not later than the 28th March, 1949. G. A. WHEATLEY

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

The Castle, Winchester. February, 1949. 1923

 February, 1949.
 1923

 SHIPLEY URBAN DISTRICT COUNCIL, SURVEYOR'S DEPARTMENT.

 APPOINTMENT OF TECHNICAL ASSISTANT __BUILDING.

 Applications are invited for the above appoints the National Scales (2450 to 2525 p.a.).

 Candidates should have a sound knowledge of Building Quantities and experience in the value due to a contracts, ordering of materials and contracts, ordering of and contracts, ordering and

HABOLD S. HASLAM. Clerk of the Council.

Town Hall, Shipley. 24th February, 1949. 1927

24th February, 1949. 1927 BOROUGH OF SOUTHGATE. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF CHIEF ABCHITECTURAL ASSISTANT. Applications are invited for the above men-tioned appointment in the Department of the Borough Engineer and Surveyor. The post is graded A.P.T. VII-VIII plus the appropriate London Weighting: and the com-mencing alary will be fixed within the Grades and experience of the successful candidate. Applicants must be Associate Members of the Roomal Institute of British Architects or hold as convalent qualification. Torms of annication may be obtained from the Borough Engineer and Surveyor and should be and envertience of the successful candidate. The non- of British Architects or hold as convalent qualification. Borns of annication may be obtained from the Borough Engineer and Surveyor and should be and on Monday. 21st March. 1949. Canvassing. directly or indirectly, will be a diaqualification. GORDON H. TAYLOR. Torms Clerk

GORDON H. TAYLOR, Town Clerk

Town Hall. Palmers Green, Lendon, N.13. 26th February, 1949.

 26th February, 1949.
 192

 COUNTY BOROUGH OF IPSWICH. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

 Applications are invited for the appointment of KRCHITECTURAL ASSISTANT in the Borougi Surveyor's Department.

 The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

 The salary will be in accordance with Grade APT. VI of the National Scales of Salaries (£995×£90×£90×£25-£660). Applicants must possess the A.R.I.B.A. or equivalent examination.

 There is no form of application, but candidates must state age, experience, and any other relevant details, and submit toopies of not more than three used to the council. He must disclose than three to his knowledge related to any member or senior in writing when submitting his application. In the submitting his application. Surveyor, Town Hall. Ipswich, not later than first post on Thursday, 10th March, 1949. Towns deale to the must disclose that fact in writing when submitting his application. I. G. BARR, Town Clerk.

Town Hall, Ipswich. 23rd February, 1949

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ABOLINIACTORAL ASSISTANT, Grade V, <u>Applicants</u> must be Associates of the R.I.B.A., and have had good general architectural ex-prience. Experience in settling contractors' mail accounts will be an advantage. Applications on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Herlihy, B.Sc., MI.C.E., Howard Street, North Shields, together with copies of not more than three recent testi-monials should be addressed to the Borough Sur-reyor to arrive by 10 a.m. on the 21st day of March. 1949. All appointments are subject to the National Reme of Conditions of Service, the Local Government Superannuation Act, 1937, a medical examination and one month's notice on either side.

Eds. Canvassing, either directly or indirectly, will dequalify, and applicants must state whether or bot to their knowledge they are related to any member of the Council or to a huder of any moir office under the Council. Dated this 24th day of February, 1949.

(Signed) FRED. G. EGNER, Town Clerk.

1931

14, Northumberland Square, North Shields.

COUNTY OF MONMOUTH. COUNTY PLANNING COMMITTER.

Applications are invited for the following ap-plinancies in the County Planning Depart-ment:---

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VERNON LAWRENCE, Clerk of the Council.

County Hall, Newport, Mon. February, 1949. 1941

COUNTY BOROUGH OF ST. HELENS. BOROUGH ENGINEER'S DEPARTMENT.

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M. WARD, M.I.Mun.E., A.M.T.P.I., Borough Engineer,

1939

Towa Hall, St. Holens. Stih February, 1949.

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times or under, 10s.; sach additional line, 1s. 6a. METROPOLITAN WATER BOARD. THE METROPOLITAN WATER BOARD in-vite tenders for the creation and completion of six houses and all necessary site works at Wind. mill Road, Ashford Common, Middleser. Forms of tender, conditions of contract, specifi-cation, bills of quantities and other particulars, may be obtained from the Board's Surveyor at these offices on production of an official receipt for two guineas. This sam, which must be deposited with the Board's Treasurer and Comp-truler, will be returned on receipt of a boan fide accompanied by all the above-mentioned docn-made between the hours of 9 a.m. and 4 p.m. (Saturdays, 9 a.m. and 11 a.m.). Cheques must be noder payable to the Metropolitan Water Board and not to individuals. The latest date for the receipt of deposits will be 19th March, 1949. Tenders, enclosed in scaled envelopes addressed to the unders'gneed and endorsed "Tender for Houses, Windmill Road. Ashford Commen." must be defined at the offices of the Board (Room 129, not later than 12 noon on 14th April, 1949. The bard do not bind themsilves to accept the lowest or any tender. Cater of the Board. Merker Metal.

Offices of the Board. New River Head, Rosebery Avenue, London, E.C.1. 1930

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M B65B.8. GORDON PRIOR & GOODWIN Worthing, on Thursday, April 7th, 1949, at 2.30 p.m., the prominent scrare block of FREHOLD BUILDING LAND at the junction of Ash Lane and The Street, Rustington, Susser (unless previously sold). Area, 12 acres (about). Par-ticulars and conditions of sale from the Auctioneers' Offices, S. Stome Buildings, Lincolns Inn, London, W.C.2. (Holborn 4526/7). 1962

Architectural Appointments Vacant

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A RCHITECTURAL ASSISTANT required (qualfied) for General Practice-Surveys, Working Drawings and Specifications. Write, stating age, previous experience and aalary re-quired. Henry C. Smart & Partners, L.B.I.B.A., 120. Moorgate. E.C.2.

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UNIOR ARCHITECTURAL ASSISTANT re-quired in London office; salary according to experience, G. H. N. Inman & H. A. J. Darlow, P./A.B.I.B.A., The Charterhouse, E.C.1. (CLE 4414.)

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S ENIOE AECHITECTS ASSISTANT, for bary country practice near coast, North Midlands. Bulary £503 to £700, according to qualifications and ability. Must be experienced, property trained, able to carry est all duties. Car driver or owner preferred. Housing experience and Quantity Surveying an advantage. Box 1834.

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A SSISTANT SURVEYOR with building ex-perience and who has reached the stage of the final examination R.T.C.B., required by Archi-icct and Survey rs in North West Kent. Salary £500 p.a. Box 1882.

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A RCHITECTS' Cooperative Partnership re-quire ASSISTANT. Work to include pro-paration of working drawings. Salary 2400 -2550, according to experience. Apply in writing to 34, Gordon Square, London, W.C.L. 1995

A RCHITECTS, Westminster, require SENIOR ARCHITECTURAL ASSISTANT. Salary according to capabilities and experience. Box 1655.

A SSISTANT wanted for London office. Must be good draughtsman. Write giving particulars of experience, etc. Salary according to qualifications. O'Rorke, 12, Cliveden Place, S.W.1. 1964

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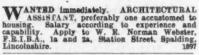
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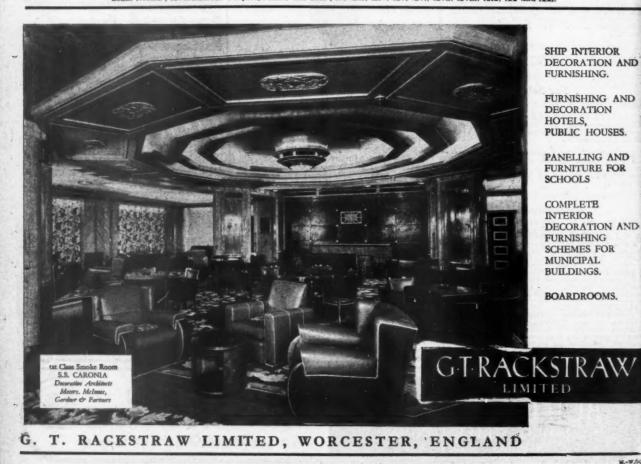
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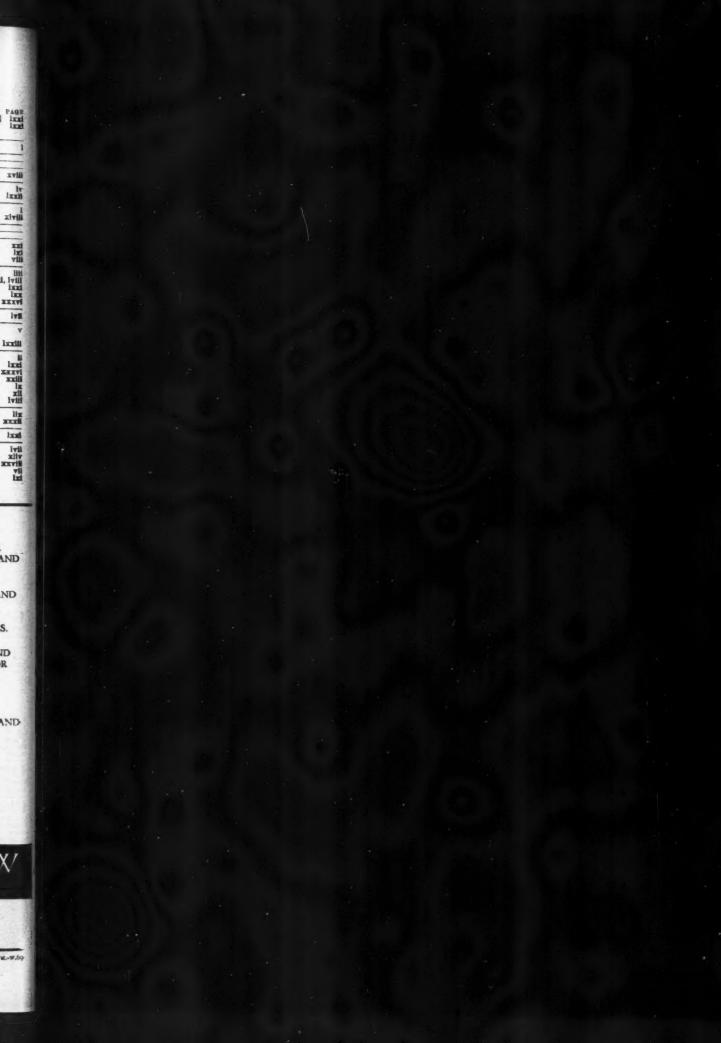
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