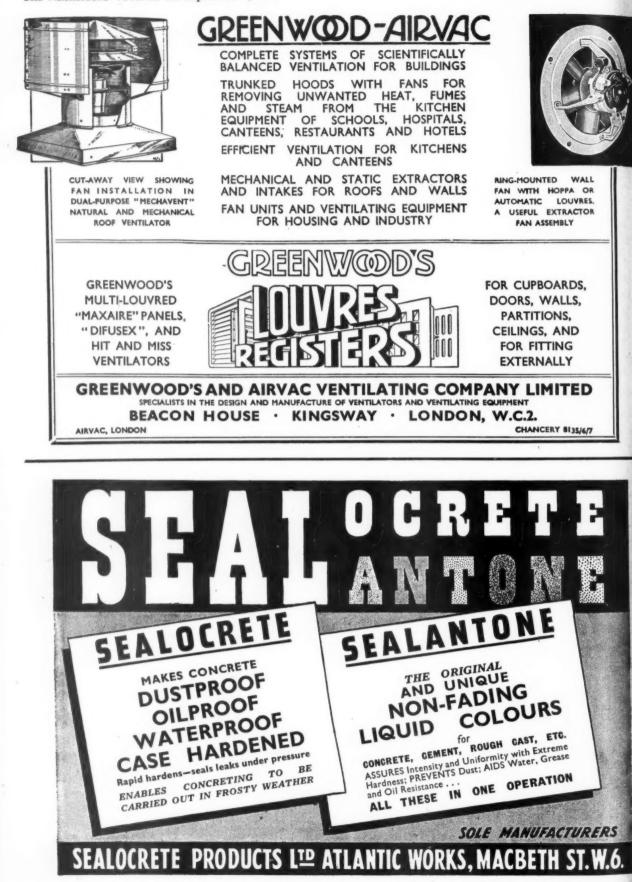
F	NE ALTO DEPALTMENT		The Architects' JOURNAL for September 8, 1949
1	HEAD	RO	CHIT EBLCLIFTARS' SEP 201949
		of all kinds lished in tw mentioned t IEE IES IGE IHVE	ary of abbreviations of Government Departments and Societies and Committees to together with their full address and telephone numbers. The glossary is pub- to parts—A to Ic one week, Ie to Z the next. In all cases where the town is not the word LONDON is implicit in the address. Institution of Electrical Engineers. Savoy Place, W.C.2. Illuminating Engineering Society. 32, Victoria Street, S.W.1. Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158
ľ	andard contents every issue does not necessarily contain	ILA	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450 Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783 Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Institute of Builders. 48, Bedford Square, W.C.1. Temple Bar 4071 Museum 7197
	all these contents, but they are the regular features which continually recur.	IR IRA ISE IWA	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. Institute of Registered Architects. 47, Victoria Street, S.W.1. Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Inland Waterways Association. 11, Gower Street, W.C.1. Monarch 7391 Abbey 6172 Museum 9200
þ	EWS and COMMENT	LIDC LMBA MARS MOA	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264 London Master Builders' Association. 47, Bedford Square, W.C.1. MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1. Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400
4	chitects' Commonplace Book tragal's Notes and Topics tters	MOE MOH MOLNS MOS MOT MOTCP	Ministry of Education. Curzon Street House, Curzon Street, W.1. Mayfair 9400 Ministry of Health. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711 Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.
	cieties and Institutions	MOW NAMMC	Ministry of Works. Lambeth Bridge House, S.E.1. Natural Asphalte Mine-Owners and Manufacturers Council.
i	ECHNICAL SECTION formation Sheets	NAS NBR NCBMP NFBTE	94, Petty France, S.W.1. Abbey 1010 94, Petty France, S.W.1. Abbey 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 5277/8 National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161 National Council of Building Material Producers. 2, Caxton Street, S.W.1. Abbey5111 National Federation of Building Trades Employers. 82, New Cavendish Street,
	formation Centre arrent Technique uestions and Answers	NFBTO NFHS NHBRC	W.1. Langham 4041 National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451 National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3 National House Builders Registration Council. 82, New Cavendish Street, W.1. Langnam 4041
	rices he Industry	NPL NSAS NT	National Physical Laboratory. Head Office, Teddington. Molesey 1380 National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359 National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehat 0211/2
	HYSICAL PLANNING SUPPLEMENT	PEP RCA RIAS	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245 Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9936 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh 20396 Reveal Institute of British Ambitants
	URRENT BUILDINGS NOUSING STATISTICS	RIBA RICS RFAC RS RSA RSI RIB SBPM	Royal Institute of British Architects.66, Portland Place, W.1.Langham 5721/7Royal Institution of Chartered Surveyors.12, Great George St., S.W.1.Whitehall5322Royal Fine Art Commission.22A, Queen Anne's Gate, S.W.1.Whitehall 3935Royal Society.Burlington House, Piccadilly, W.1.Regent 3335Royal Society of Arts.6, John Adam Street, W.C.2.Temple Bar 8274Royal Sanitary Institute.90, Buckingham Palace Road, S.W.1.Sloane 5134Rural Industries Bureau.35, Camp Road, Wimbledon, S.W.19.Wimbledon 5101Society of British Paint Manufacturers.20, Piccadilly, London, W.1.Regent 6347
	rchitectural Appointments Vanted and Vacant	SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244
	ante ana potent	SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. Mansion House 3921 Structural Insulation Association. 14, Moorgate, London, E.C.2. Central 4444 Society of Industrial Actists – Room 243 Empire House 51 Martin's la Grand
	-	SIA SNHTPC SPAB	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1. Metropolitan 8344 Scottish National Housing & Town Planning Council. Hon. sec., Robert Pollock, Town Clerk, Ruthergien. Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.
	2848] [Vol. 110 HE ARCHITECTURAL PRESS 11 and 13, Queen Anne's Gate, Westminster, W.1. 'Phone : Whitehall 0611	TCPA TDA TPI TTF WDC	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Timber Development Association. 75, Cannon Street, E.C.4. Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 81, Cannon Street, E.C.4. War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.
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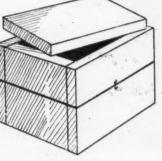
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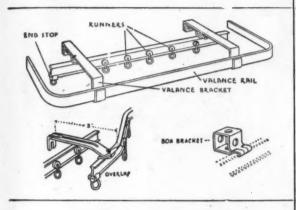
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Rufflette brand RECESSED CURTAIN TRACK

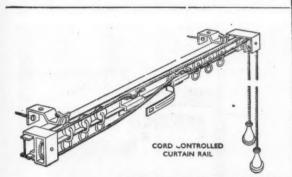
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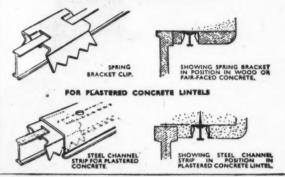


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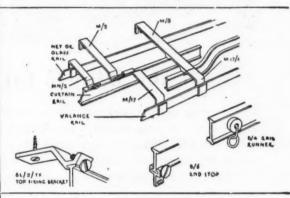


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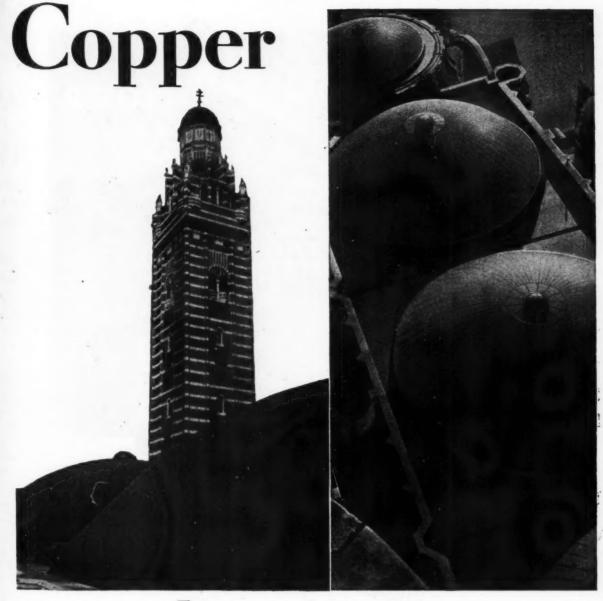


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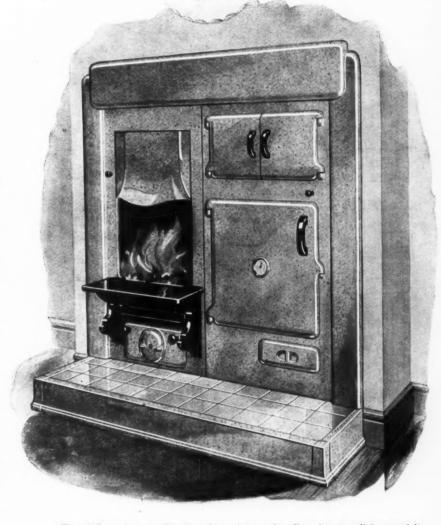
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Grate, overall size 38in. by 38in. by 141in. Brickwork opening required, 44in. high by 40in. wide and 15in. deep.

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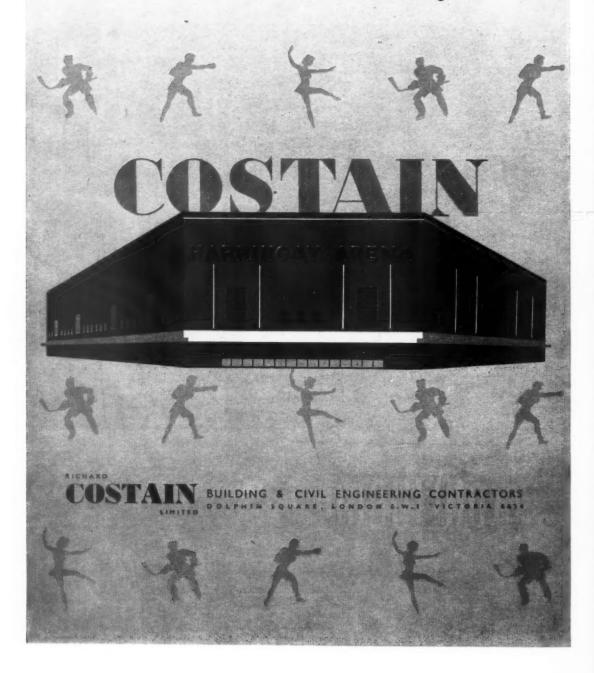
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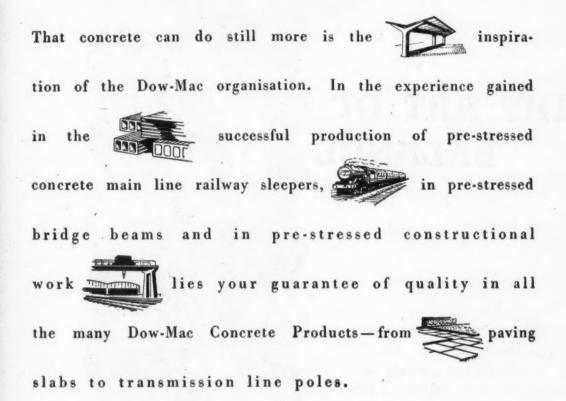
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THE ART OF BALANCE

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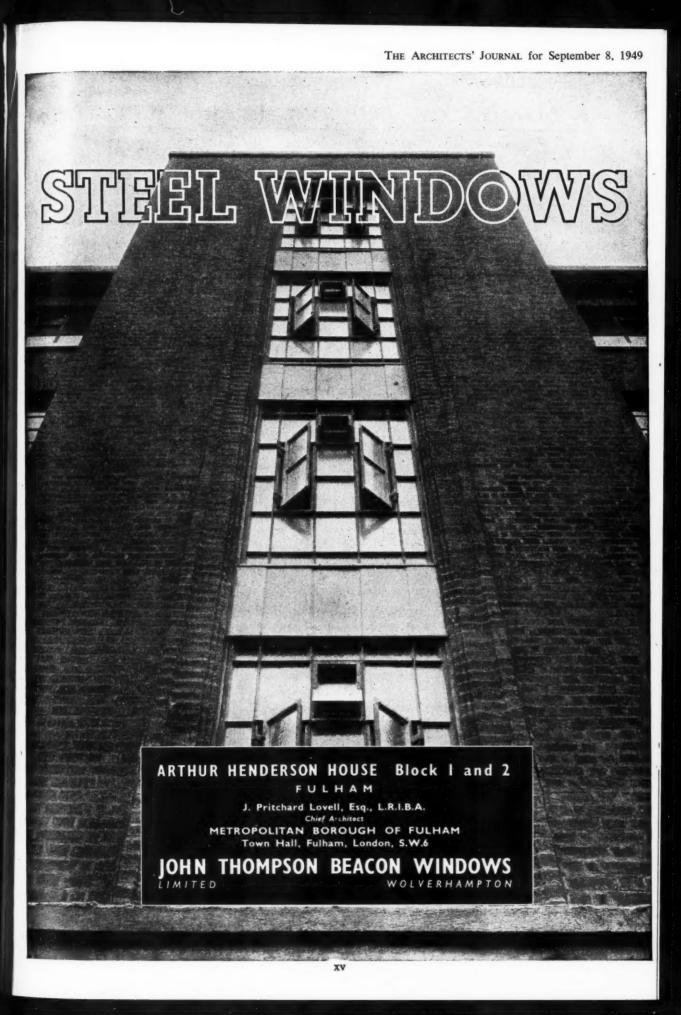


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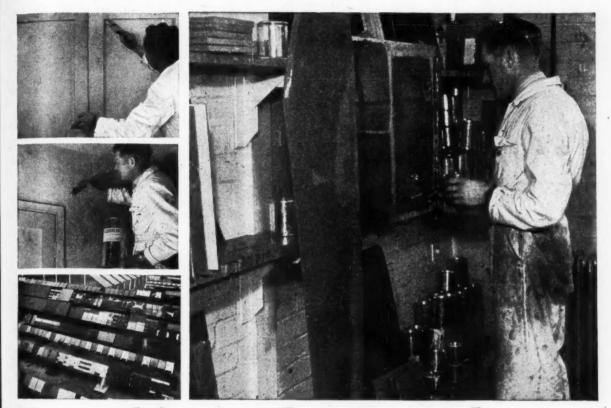


Architect : W. H. Gunton, F.R.I.B.A.

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THE ARCHITECTS' JOURNAL for September 8, 1949 [xxiii

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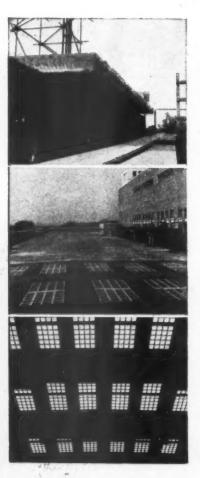
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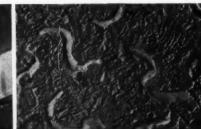


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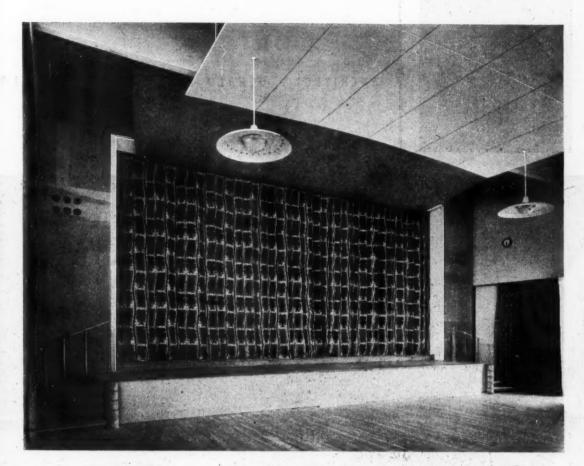
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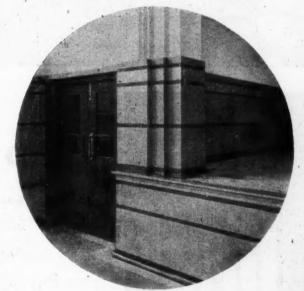


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THE ARCHITECTS' JOURNAL for September 8, 1949

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ARCHITECT : GERALD LACOSTE, O.B.E., A.R.I.B.A.





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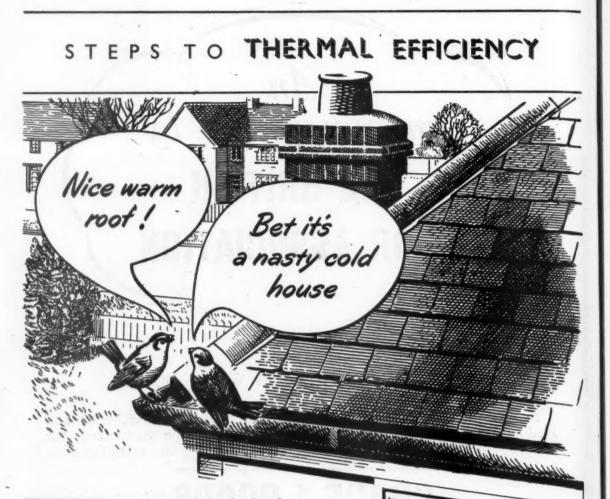
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- I As H, but with ceiling of 1" insulating board 0.13
- J As B, but with 1" insulating board ceiling and 1" insulating quilt laid between joists. 0.19
- K As J, but with the ¹/₂ quilt draped over joists to include an air space 0.17
- L Tiles on boards and felt, ceiling of 1" wood wool slabs plastered 0.20
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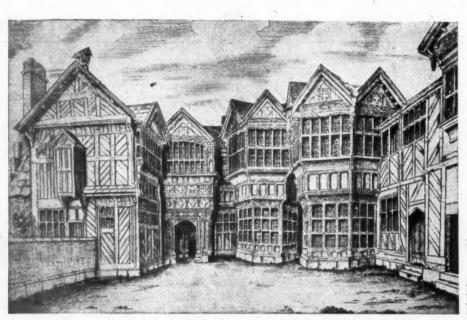
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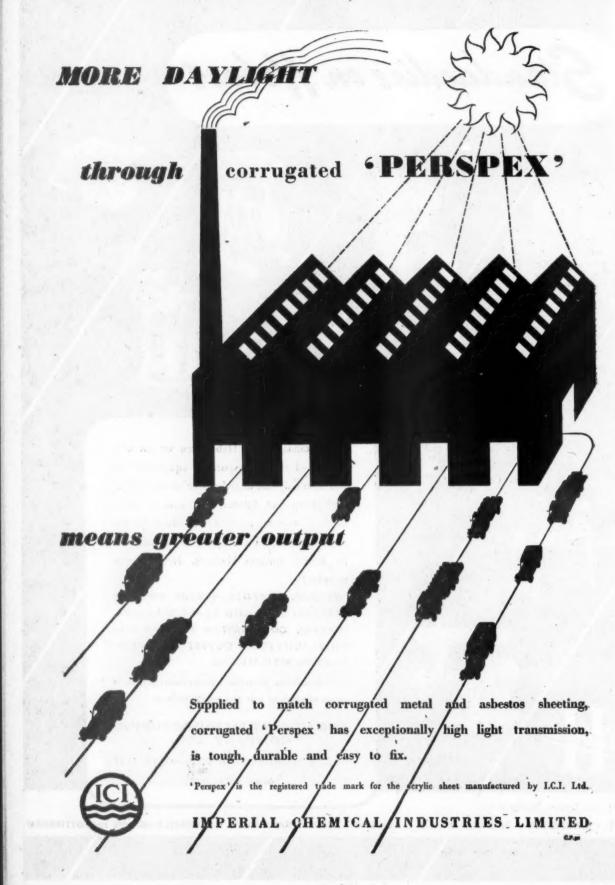
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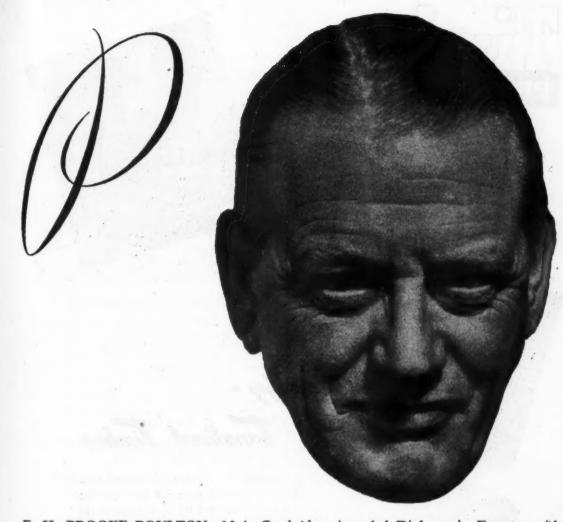
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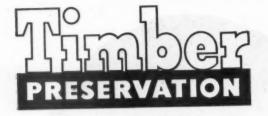
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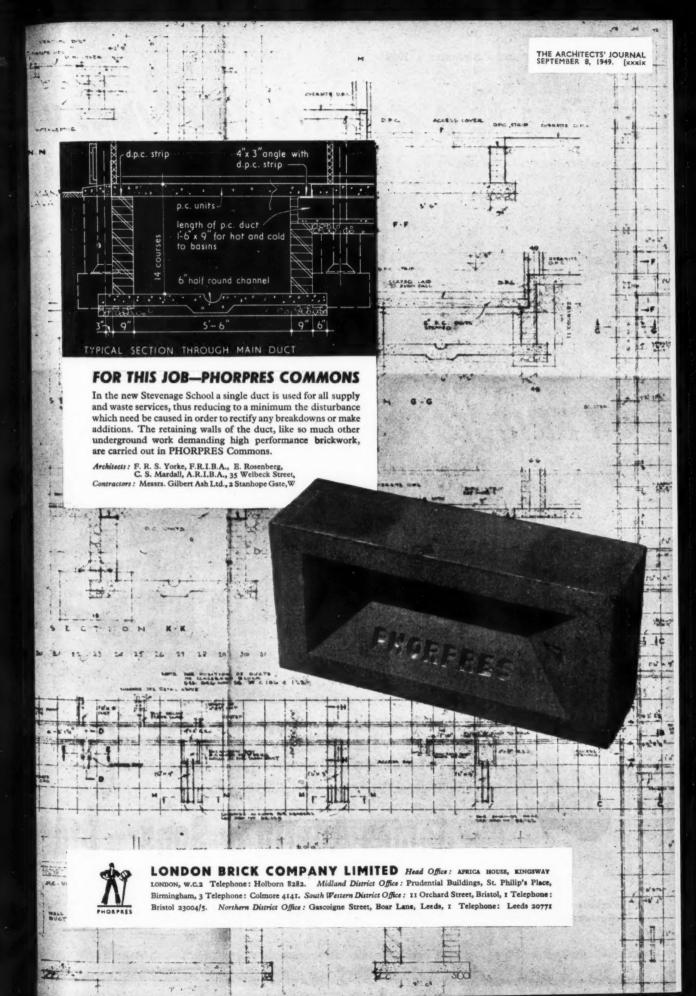
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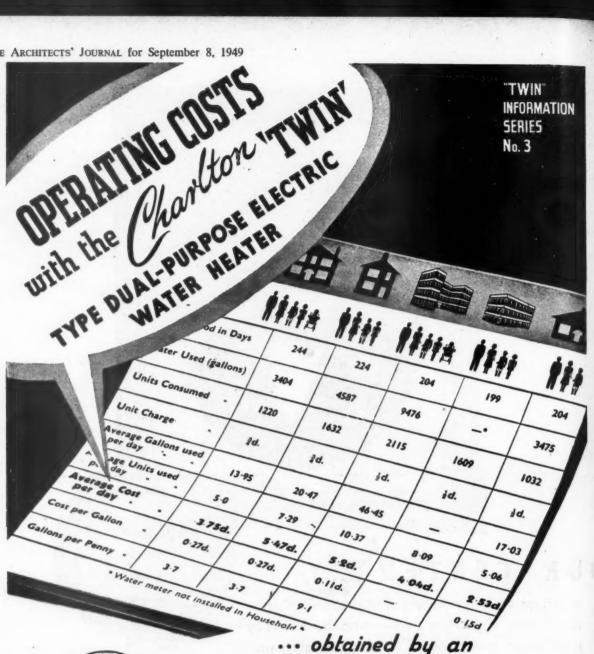
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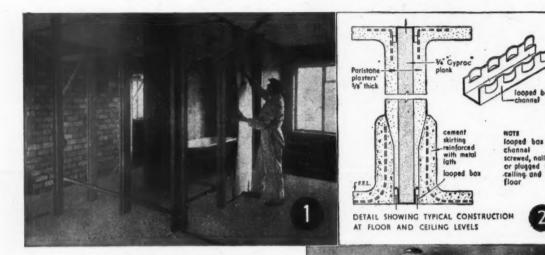
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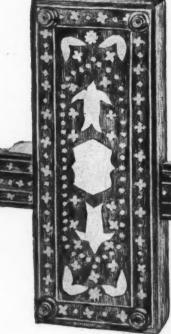
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- 2 Typical fixing at ceiling and floor.
- 3 A view of a finished partition.

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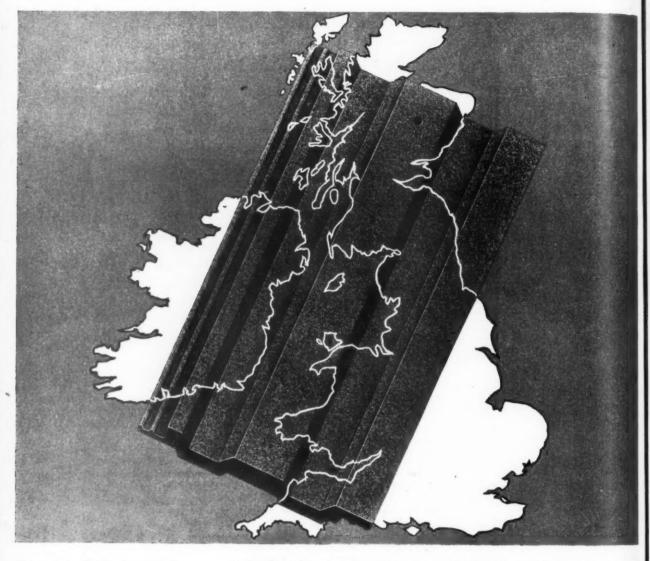
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Supporting brackets are not necessary, as during manufacture the gutters are fitted with cross tubes which allow brass screws to be inserted through the gutter and into the facia board-thus strengthening both the fixture and the gutter.

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(Above) A complete run, the full length of the house, which was erected in one piece. The fall was then adjusted in one simple operation.

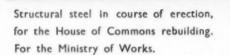
(Below) A complete bay section which was prefabricated on the ground and erected complete.

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THE ARCHITECTS' JOURNAL for September 8, 1949 [239

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, $\pounds 1$ 15s. od. per annum. Single copies, 9d. ; post free, 11d. Special numbers are included in subscription ; single copies, 1s. 6d. ; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 17s. 6d. each ; carriage 1s, extra.

DIARY FOR SEPTEMBER

Tides 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.

BRADFORD. Design Week organized by the Council of Industrial Design. Details to be announced locally. SEPT. 12-17

G LASGOW. Electrical Appliances Exhibition. (Permanent.) Electrical Section, Scottish Building Centre, 425 and 427, Sauchiehall Street, Glasgow, C.2.

Scottish Industries Exhibition. Kclvin Hall. (Sponsor, the Scottish Council.) 10 а.m. to 10 p.m. daily, except Sundays. UNTIL SEPTEMBER 17

L ONDON. Background to Design Exhibition. (Sponsor, CID.) Rayon Design Centre, 1, Upper Grosvenor Street, W.I. Weekdays, except Saturday, 10 a.m. to 4 p.m. Closing date not announced.

Engineering and Marine Exhibition. Olympia. Monday to Saturday, 11 a.m. to 9 p.m. UNTIL SEPT. 10

Dry Rot Exhibition. Building Centre, 9, Conduit Street, W.C.1. (Sponsor, DSIR.) FROM SEPT. 12

T UNBRIDGE WELLS. Building Week. (Sponsor, MOW.) SEPT. 19-24

Buildin gs Illustrated

Secondary Modern School, Stevenage, Hertfordshire. (Pages 250-262). Architects: F. R. S. Yorke, E. Rosenberg and C. S. Mardall, assisted by T. R. Evans, C. Kitchen, R. R. Tomalin and Miss P. Whiting. County Architect: C. H. Aslin. General Contractor: Gilbert Ash, Ltd. Quantity Surveyor: Davis, Belfield and Everest. Structural Engineer: O. Marcel. Heating Consultant: Oscar Faber and J. R. Kell. Electrical Consultant: A. H. Barker & Partners. Drainage Consultant: Daniel Longden. Bronze Sculpture Group designed by Henry Moore. Mural in the entrance hall by Kenneth Rowntree. Sub-contractors: dampcourses, William Briggs, Ltd.; reinforced concrete, Square Grip reinforcement, Truscan floor slabs, Hills roof units; bricks, external facings, East Acton stocks; internal facings, Uxbridge Flint Lime, Commons, Flettons; precast wall units, slabs, and light constructional steel frame, Hills (West Bromwich), Ltd.; special ceilings, Sundeala, patent suspension, Secolith, Uni Seco; steel partitions, windows and doors, Williams & Williams, Ltd.; domelights, Ide's and Pikingtons; glass bricks, James Clark & Eaton; roof lights, Lenscrete; oak strip fooring, Hollis Bros.; patent flooring, Granwood composition Cork tiles by Armstrong's; concrete tiles by Moordon; terrazzo flooring by Mosaic & Terrazzo, Ltd.; central heating, G, N. Haden & Sons, Ltd.; electric wiring, Etna Lighting & Heating, using Pyrotenex cables; electric light fixtures, Troughton & Young, Ltd., Benjamin Electric, Ltd., and F. H. Pride, Ltd.; ventilation equipment, G. N. Haden & Sons, Ltd.: plumbing, R. J. Audrey, Ltd.; sanitary fittings, Stitsons Sanitary Fittings, Ltd.; stair treads, Mosaic & Terrazzo, Ltd.; door fittings and furniture, Remios, Ltd., Dryad, Ltd., Gibbons, Ltd.; window gear, Arens Controls, Ltd.; radio, Audix Sound Equipment, Ltd.; hardwood internal doors, Multigon by Joseph Sandall, Ltd.; rolling shutters, W. G. Parker & Co., Ltd.; duct and M.H. covers, Broad & Co., Ltd.; internal and external fibrous plaster, Dejongs; metalwork, Clark, Hunt & Co., Ltd.; oinery, Educational Supply Association, P. H. Barker, Ltd., John Sadd & Co., Ltd.; acoustic tiles, Acousti-Celotex by Horace W. Cullum & Co., Ltd.; tiling, Carter & Co., Lndon, Ltd.; textiles, Gerald Holton; wallpapers, A. Sandersons & Sons; wall fabric, Morton Sundour; paint, Screetons, I.C.I., Thos. Parsons & Sons, Ltd.; furniture, Harris Lebus, Educational Supply Association, Geo. M. Hammer & Co., Ltd.; ture, Harris Lebus, Educational Supply Association, Geo. M. Hammer & Co., Ltd.; ture, travis, Clark, Thos. French & Son, Ltd.; courtain track, Thos. French & Son, Ltd.; clocks, Gents of Leicester.

COMPETITIONS

Competition for Design of Strip Carpet. IAAS competition open to architects and architectural students in the United Kingdom and the Commonwealth. Divided into three sections: hotels, cinemas and theatres and ships. In each section a first prize of 75 guineas and a second prize of 25 guineas will be awarded. Closing date, October 31. 1949. Assessors, Kenneth J. Lindy, E. C. Leach, and Hurley Robinson. Technical Advisers, John Anderson and J. P. Glass. Details from the General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

Design of Community Centre. The Incorporated Association of Architects and Surveyors. Two prizes, £150 and £75, for Urban Design. Two prizes, £100 and £50, for Rural Design. Open to all architect members of the IAAS, and to any architect, whether principal or assistant, in the United Kingdom, Northern Ireland and Eire. Closing date, February 1, 1950. Applications to General Secretary, 75, Eaton Place, Belgrave Square, S.W.1.

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

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

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

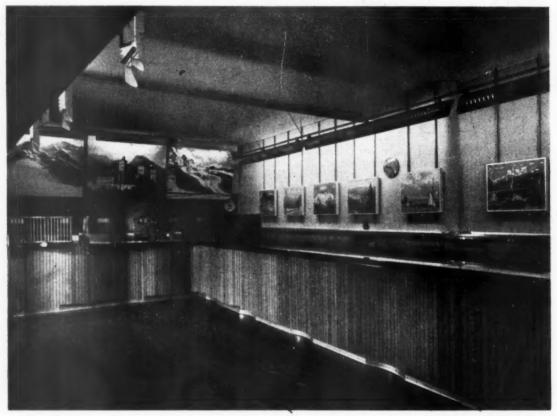
Any feature marked with more than two stars is very big building news indeed.

Work on PETERLEE will start in a few weeks.

+

Mr. Lewis Silkin, Minister of Town and Country Planning, announced at Easington (Co. Durham) last week that the building of the new town of Peterlee would begin in two or three weeks. Mr. Silkin said that the main difficulty had been the coal deposits which underlie the site. but the programmes of coal-mining and building have been correlated so that both can go ahead for a number of years with a minimum of obstruction. It is now presumed that coal-exploited ground is free from subsidence after five years. The present available land is for the centre of Peterlee and it will be suitable for heavy buildings and houses. Work on road and sewers for the first hundred houses will start in two or three weeks. The Minister could give no estimate for the rate of progress, and he hazarded a guess of twenty years for the could not assess the cost, as much would depend upon the extent of the corporation's ownership of property. The original estimate of £14,000,000, he said, could be no guide.

CREATION WITH CRAFTSMANSHIP



Architectural Review photograph

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An interior view in the Swiss National Tourist Office, Golden Cross House, Trafalgar Square, London, S.W.I. Architect : Alfred Roth B.S.A., S.I.A., of Zurich, in association

with Messrs. T. P. Bennett & Son F/A.R.I.B.A. Architectural joinery by Courtney, Pope Ltd.

TELEPHONE: STANFORD HILL 4366 (10 LINES) TD. Y, POPE JE COURT -TTENH . LONDON, N. 15 1

From AN ARCHITECT'S Commonplace Book PRESERVING THE PAST. [From Colonial Williamsburg.] The restoration of Colonial Williamsburg represents the first attempt on a large scale to recover the physical form and atmosphere of an entire colonial town. This project has been undertaken with the conviction that our old buildings with their furniture and implements are the visual memories of our early history—" the scene and witness of human adventures and events." It was the realization that a wealth of historic fact and artistic value lay hidden in the venerable remains of Williamsburg which led to its restoration. Only recently has America come to recognize the cultural values in its past architecture, although historic buildings have always had their loyal protectors. Mount Vernon, Independence Hall, and the Old State House at Boston were early accepted as historic monuments, as well as many other significant buildings in all sections of the country. Inexperience or misdirected enthusiasm sometimes led to faulty restoration work which caused even more damage to a building than indifference or neglect ; but gradually there has grown up a tradition of preserving the original expression as well as the actual physical structure of buildings.

An EXHIBITION of DRY ROT is to be held at the Building Centre. The DSIR state: Dry rot in a building means expense, inconvenience and waste of a valuable material. Building timber is likely to be scarce in Britain for many years to come, and its premature decay should never be allowed to occur. To help with this problem an exhibition sponsored by the DSIR is opening on Monday, September 12, at the Building Centre. Timber is a naturally durable material and some kinds of wood endure indefinnitely under any conditions. The common softwoods used in building, however, are liable to decay if they are exposed to persistent damp, and there is danger of dry rot wherever timber in a building becomes moist. This moisture is essential for the original development of the fungus responsible, which, once established, may carry its own water by means of conducting strands and invade dryer parts of the building. It may even pass through thick brick or stone walls.

By means of photographs and specimens of timber attacked, the exhibition shows what dry rot looks like and points out the likely places to find it. Once dry rot is discovered, the cure is drastic. Measures which must be taken and methods of applying preservatives to the wood are therefore explained in detail. A further exhibit illustrates the ways in which dry rot can be prevented in new buildings by effective damp-proof courses, thorough ventilation, and the use of properly seasoned timber. Among the other sections is one showing the distinction between dry rot and insect damage. This point is important because the treatments required are quite different. The exhibits and information in the exhibition, which will be open for two months, have been provided by the Forest Products Research Laboratory, DSIR.

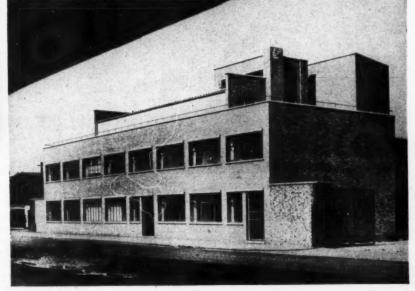
A CENTRE FOR THE CONTEMPORARY ARTS is shortly to be opened in London. London is to have as a centre the Watergate Theatre, where those practising and interested in the contemporary arts can meet, eat, drink and talk, and see the latest developments in the theatre and cinema (16 mm. film), listen to modern music at convenient times, and be entertained by topical cabaret, puppet shows, and small exhibitions of painting, sculpture and photography from all over the world. The theatre club is shortly to be opened, with the co-operation of the Institute of Contemporary Arts, at 29, Buckingham Street, Strand, W.C.2. The premises will be opened as soon as the public has shown, by taking shares in the enterprise or by joining the Club, that it is ready to support the Watergate. Club membership, which includes membership of the theatre, is 3 guineas a year. Subscriptions can now be received at 29, Buckingham Street, W.C.2, and will date from the opening of the Club. Special terms will be arranged for overseas visitors, country members and students. Theatre membership alone is 10s, 6d. a year (5s. for students of recognised schools and colleges), which gives the right to buy tickets for all activities in the theatre. Theatre members will receive a monthly programme free of charge.

A model of the theatre and auditorium and designs for the decoration of the club rooms has been made by Miss Sadie Speight, A.R.LB.A., F.S.I.A. Mr. Eric Capon, the Administrator of the Watergate, formerly Director of the Glasgow Citizens Theatre, will be very pleased to answer any questions of detail. The Joint Watergate Theatre Committee will consist of: Edward Clark, Roland Penrose, E. C. Gregory, Ewan Phillips, G. M. Hoellering, Herbert Read, Hugh Hunt and Frederick Laws, of the ICA, and Elizabeth Denby, Jane Drew, Velona Pilcher and Elizabeth Sprigge, of the Watergate.

r,855 FEWER HOUSES were built in July than in June. The July total was 14,634 (against 16,489 the previous month), bringing the total this year so far to 115,811. New houses completed under the post-war programme now total 698,677, of which 541,531 are permanent, and the number of families rehoused since the war's end by new building, repairs, conversion and requisitioning is now 990,713. Local authorities were responsible for 11,902 of the new houses for July. In Scotland, 1,584 new permanent houses were completed in July, of which local authorities built 1,433.



These Goods Offices at Canada Dock, Liverpool, have been designed by the Architects' Office of the Civil Engineer's Department, London Midland Region, British Railways. The building is steel framed, and is designed for future extension. A 3-ft. 4-in. grid has been used. A suspended ceiling to the beam soffits, together with walls which are flush with the stanchions, gives an unobstructed office space which allows for easy rearrangement of the plywood partitions.





Merulius Lacrymans

This deadly rot, which weeps crocodile tears to moisten the sound timbers which it devours, has for centuries been one of the great causes of wastage in timber. In order to show architects and the public that the disease of dry rot, when properly understood and dealt with, need not be the cause of anxiety and expense which it has in the past, the Department of Scientific and Industrial Research are sponsoring an exhibition of disease in timber at the Building Centre, 9, Conduit Street, London. The photograph above shows an exceptionally vigorous growth of merulius lacrymans on a wooden strut in a damp unventilated basement, and is reproduced by permission of the Director, Forest Products Research Laboratory (Crown copyright reserved). See also opposite page and page 246.

LCC's appeal allowed for HOUS-ING SCHEME at MERSTHAM.

The MOH and the MOTCP have decided to allow the LCC to develop 210 acres of land at Merstham, near Reigate, Surrey, to house about 6,000 people. This decision This decision house about 6,000 people. This decision follows a joint inquiry and upholds the LCC's appeal against the Surrey County Council's refusal to allow the development on the ground that it was inconsistent with on the glound that it was inconsistent with the MOTCP's proposals for the ultimate population in the area. In a letter to the Surrey County Council Mr. Silkin states that the LCC badly need a site on the south side of London to fulfil their immediate housing programme, and the Minister is satisfied that no suitable alternative site can be found. His ultimate population figures for Greater London were always intended to be provisional and subject to variation after more detailed survey of existing conditions. Mr. Silkin considers that it will be possible for the LCC to develop Merstham as a balanced community and that it should not become a dormitory suburb with large numbers travelling daily to London. There is a shortage of labour in the Redhill area; and in choosing their out-county estate residents the LCC take into consideration the places where they work in order that daily travel may be reduced to a minimum.

It is not thought that the North Downs Preservation Area would be adversely affected by the scheme, but, as a safeguard, the Minister expresses the opinion that land south of the Bletchingley Road should be used to the fullest possible extent for the provision of schools, playing fields and community buildings, both for the existing as well as the new population. Care should also be taken to avoid cutting down trees, especially north of the Bletchingley Road. These steps would help considerably to protect the view from the Downs.



Mr. Adrian Ashton, an architect of Sydney, Australia, arrived in London on August 29, for a three months' visit under the auspices of the British Council to see housing developments, new schools, industrial buildings and town and country planning schemes. Mr. Ashton is the first President of the National Trust of Australia, and is interested in studying the work of the National Trust and the Royal Fine Art Commission. He is President of the New South Wales Chapter, a Fellow of the Royal Australian Instinute of Architects, and an Associate of the RIBA.

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WASTE AND DECAY

FOR one reason or another, many essential and once plentiful commodities are now scarce, and some of the earth's natural capital resources, only used in quantity after the industrial revolution, are being exploited at a rate which brings exhaustion within the foreseeable future.

It seems that abundance, like familiarity, breeds contempt, and that, ironically, it is only with scarcity that man learns to respect the materials essential to his well-being. Either through ignorance, or because of the difficulty or expense of carrying out preventive measures, or simply for immediate gain, there has been, in the past, a reluctance to take precautions against waste.

Long overdue attention is now being given to the many manifestations of this subject. We are witnessing, for instance, campaigns for the conservation of food ; for the saving of fuel ; for the prevention of waste of metals due to corrosion ; for the checking of atmospheric pollution, and for the more efficient use of timber in structures, and the prevention of its decay caused by wood-rotting fungi and beetle attack. An exhibition on this latter subject has been arranged at the Building Centre, and will be opened by Dr. W. P. K. Findlay, of the Forest Products Research Laboratory, on September 12. Not only has the shortage of timber made this an important subject, but most architects will have had experience of the vast increase in dry rot caused by bomb damage and general neglect of property during the war years, particularly where incendiary bombs were extinguished with large volumes of water. Whilst the greatest emphasis is placed on the prevention of decay, the exhibition also deals with the problem of the recognition and eradication of wood rotting fungi once they have established themselves. A further section deals with the allied problems of beetle attack, and distinguishes between the two sources of destruction.

Since its establishment in 1927, the Forest Products Research Laboratory has done valuable work for the better utilization of timber in this country. It has recently developed means of identifying fungi in timber, in the absence of their fruitifications, which is essential if the source of infection is to be determined. Research has also been undertaken on the natural durability of wood, and certain toxic substances have been discovered in timber which explain why some species are more resistant to decay than others. This has an application in determining the best use of many of the unfamiliar timbers which are now being imported. Methods of testing the effectiveness of chemical wood preservatives have been developed, and a British Standard has been published on this subject.

Again, however, we find a gap between knowledge gained from scientific research and day to day practice. As so often happens in the building industry, prejudices persist through lack of accurate knowledge, and the architect's job is also 244] THE ARCHITECTS' JOURNAL for September 8, 1949

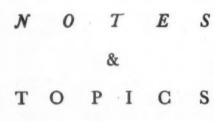
sometimes more difficult because either the builder or the tradesmen themselves interpret too liberally the writing of a specification without really understanding the intention. It would, for instance, be most valuable if the expression "wet rot" could be eliminated from the building industry's vocabulary, so that architects and builders could start on the same footing.

The position in new buildings is undoubtedly improving, both as regards methods of construction, and in the proper use of timber impregnated with wood preservatives under pressure, but, in the meantime, the waste of valuable timber continues at an alarming rate.

It is to be hoped that the present exhibition will bring the latest scientific and technical information to many of those faced with problems of timber preservation, and will help to reduce the needless waste of good timber through premature decay.



The Architects' Journal 9. 22 and 23, Queen Anne's Gate, Westminster, S.W.2 Phone: Whitehall 0622



GATHERING OF THE ARTS

I think it was a triumph on the part of the MARS Group and the Institute of Contemporary Arts to have attracted such a large and attentive crowd to their joint meeting on Friday, especially at so unpromising a time of year. I have seldom seen the RIBA so full. The subject was Collaboration between Architects, Painters and Sculptors, and the meeting celebrated the end of the CIAM Summer School.

Gerald Barry was an urbane chairman who, unlike many chairmen, had plenty to say on the subject himself, and the speakers included practitioners of all three arts and a couple of distinguished foreign visitors—Ernesto Rogers from Milan, and van Eesteren, from Amsterdam—who had already discussed the same subject at the recent CIAM Congress at Bergamo. If most of the talk was a bit nebulous, I think that was inevitable when a subject of such wide ramifications was being talked about in public for the first time. And there were difficulties of language which even Jacqueline Tyrwhitt's able summing-up could only partially overcome.

But whatever the shortcomings of the speeches, that was much less important than the fact of the meeting having been held at all and the interest taken in it. It proved that architects, painters and sculptors realise the need for closer collaboration and are eager to do something about it. Great things have sprung in the past from such modest beginnings as this. The meeting also served the useful purpose of showing the need for contact between the arts by demonstrating how naively unaware even well-informed art critics can be of the ideas behind modern architecture, and how out of touch the liveliest achitects can sometimes be with what painters and sculptors are thinking.

INTERNATIONAL CRIT

Thursday night's criticism of the CIAM International Summer School's completed projects set a standard that few schools can hope to equal. Led by the AA's Jordan, the jury included Eesteren, Rogers, Maxwell Fry. Jacqueline Tyrwhitt, and many of the participating students. It lasted from 6.30 until midnight, with a concentration and liveliness that even the dinner-break failed to stem. The four programmes were for a theatre, a housing scheme, a traffic junction, and a project for an empty site in Knights. bridge. Allowing for the short time available and the difficulties of unfamiliar languages and local conditions, the general standard of work was high. Much more important, the solutions managed to involve almost every controversial issue facing contemporary architecture today.

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So many brilliant yet simply expressed ideas were elaborated that it is impossible to select the most significant. There was Jordan on the technical and æsthetic functions of a living architecture; elaborated in a poetic address by Rogers on unity in design. Fry on symmetry, " the architecture of command," and his analysis of the subconscious forces that have cast contemporary building in an asymmetrical mould. All these, and many minor diversions and exchanges. will remain in one's memory as an outstanding intellectual experience. I am sure that only the atmosphere of





Archibald Blair's Storehouse, a shop in Williamsburg, showing, top, the shop before, and below after restoration. See Astragal's comment.



A typical Williamsburg house, from the book " Colonial Williamsburg : its Buildings and Gardens." See Astragal's comment.

an international gathering can so electrify the intelligence, unlock the tongue, and accentuate all that is valuable in national character while submerging the sense of nationality.

COLONIAL WILLIAMSBURG

Mr. Lawrence Kocher, designer with Albert Frey of a little house perched on steel pipe columns at Long Island, New York, Mr. Dearstyne, who studied at the Bauhaus, and under Mies van der Rohe and taught at Cranbrook Academy, and Mr. Herbert Matter, well known for his contemporary photographs, have collaborated in an act of piety in presenting a book* on America's museum town, Williamsburg, in Virginia.

Looking through the super-glossy photographs of reconstructed Wren, one can only assume that the Americans, being conscious of the fact that they have little history behind them, are anxious to preserve those relics of the past which they have as fully as possible. The decayed foundations of the Capitol and Palace at Williamsburg have now sprouted brand new buildings reconstructed from historial documents with the utmost care and fidelity. The authors state that where antique furniture could not

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* Colonial Williamsburg: Its Buildings and Gardens. Published by Colonial Willamsburg, Virginia. Price, \$2.75.

be obtained in sufficient quantity, it has been made. As a final touch, the inhabitants appear to walk about in powdered wigs and eighteenth century garb. Even the craftsmen at work seem to wear eighteenth century baize aprons.

It is, of course, all rather absurd, and a good many purists will, no doubt, have a good laugh at their expense. But then, purists will laugh at anything. A crowd of them at the SIA's summer school laughed at the mock-Gothic of Wyatt's Ashridge Park. Chinoiserie is also a good joke, and so is the delicious nonsense of building in Roman, Greek or Italian styles, or, indeed, in the clumsy continental cubist style beloved by some modernists.

No, before throwing a stone at this piece of reconstruction in a glass case, one should make sure that there is not too much glass in one's own house. We can be thankful, at any rate, that this expensive and beautifully cared for and executed piece of restoration is not necessary over here-yet. We have plenty of tumbled-down, dving. villages, and many of our fine country houses are splendidly maintained as Ministerial offices, institutes and homes. Only the other day I saw a charming Georgian house, now belonging to the local council, looking

quite splendid with a new interior colour scheme of dark cream, orange and brown.

ASTRAGAL

LETTERS

R. Nott H. Meyer Sydney Redfern, LI.B. Chas. J. Barker

The New Towns

SIR,—Mr. Betham is right in his letter on town planning in your issue of August 4. Today more than ever it is urgently necessary to be economical in the use of all land sary to be economical in the use of all land which might grow food. Surely, however, not even that need can justify increasing the population of a city which earned and de-served the name of "Wen" when it was half its present size. There is an unsatisfied demand for allotments in most parts of the London area, and Mr. Betham should tackle the national and local allotment second the national and local allotment associaopen spaces, and their produce would largely offset that of the lost farmlands.

For heaven's sake, let the new towns go ahead; they are one of the boldest ideas this country has ever produced, and worth a deal more to their inhabitants than a free health service. Epsom.

R. NOTT

Architects Registration Act, 1938

SIR,-If a layman is allowed to contradict learned counsel, I venture to refer to a re-port in your issue of July 14 of answers given by Mr. Sydney Redfern to questions

given by Mr. Sydney Redfern to questions relating to architectural practice. The question to which I refer was whether a non-registered architect might, in the Articles of Agreement, be named as "the architect." In his answer Mr. Redfern, though denying "misrepresentation," con-tended that a non-registered architect; "who allows his name to be put in the contract as the architect..., is liable to proseenas the architect . . . is liable to prosecution.

tion." Architect is, no doubt, just an English word which, together with many thousands of others, forms the English language. The Shorter Oxford English Dictionary ex-plains the architect as " one whose pro-fession is to prepare plans of edifices, and exercises a general superintendence over their erection."

Now, a law may perhaps restrict a certain word from being used as a title, but certainly word from being used as a title, but certainly not strike it altogether off the vocabulary. (Nor is there any law to prevent a persons from making architecture his or her "pro-fession.") The difference between the common and the restricted uses of the word—constantly overlooked in the answer referred to—is a very simple one and con-nected with two equally simple other words: the difference between "an" and "the." The law prevents a certain person from calling or allowing himself to he words: the difference between "an" and "the." The law prevents a certain person from calling or allowing himself to be called "an architect." But everyone who, in pursuance of his profession, has "pre-pared plans . . . etc.," for a particular "edifice" is, by force of the English language, "the architect" of this particular edifice. Thus, a caption under a published AN







Next Monday, an exhibition of dry rot will be opened at the Build-ing Centre, London. Sponsored by ing Centre, London. Sponsored by the DSIR, the exhibition aims to snow, by means of photographs and specimens of timber attacked, the way to deal with dry rot. These photographs show the various stages in the eradication of the rot. Above, first stage, recognition, the appearance of a typical fungus growth. Above, left, the second stage. Having removed and burnt on the site all affected and burnt on the site all affected woodwork, the wall surfaces are sterilized by prolonged heating with a blow lamp. This is followed by, left, the third stage : spraying with an antiseptic solu-tion. Bottom, the preventive measure. The source of dampmeasure. The source of damp-ness is removed, and increased ventilation to the infected area ensured. The photographs are Grown copyright reserved, and are reproduced by permission of the Director, Forest Products Research Laboratory. See also pages 241 Laboratory. See also pages 241 and 242.

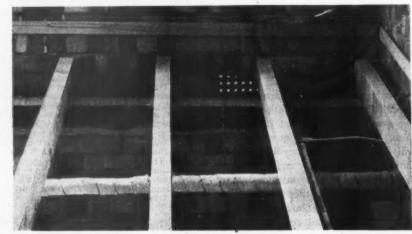
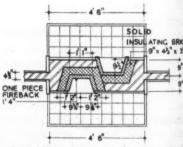


illustration of a building may "Offices of Messrs. So-and-so Ltd. read . "Offices of Messrs. So-and-so Ltd. Archi-tect: Billie Brown of London Town." The important factor is the colon, because that does the trick. It simply states that Mr. Brown was "the" architect, whereas a caption: "B. Brown, architect, whereas a caption: "B. Brown, architect, whereas course, imply that he is "an" architect. And a client may, paradoxically, tell an admirer of his new-built residence: "And ust imagine. the architect was not as imagine, the architect was not an iust architect.

Who, by the way, is entitled to participate in a competition open to "all architects and architectural students"? Certainly not those still studying, to the exclusion of those having just finished their studies? No, sir, a person who allows him or herself to be named in the Articles of Agreement "the architect" is not liable to prosecution. H. MEVER

SIR,—In reply to Mr. Meyer, may I say, first, that I am not "learned counsel," nor am I a court of competent jurisdiction charged with the duty of deciding points

and the duty of deciding points of law authoritatively. Notwithstanding the interesting dialectical arguments put forward by Mr. Meyer, I remain of the opinion that a person (not being a registered architect) who in a build-ing contract describes himself as "the Architect" is committing a breach of Section 1 of the above Act. I believe I am correct in thinking that my opinion is shared by the Architects Registration Council, although I am not aware of any decided case on the point. It appean, therefore, that the difference of opinion between Mr. Meyer and myself can be re-solved only by His Majesty's Judges, if and when the point comes before them. when the point comes before them. London SYDNEY I SYDNEY REDFEIN



A sketch for the design of a fireplace referred to by Mr. Barker in his letter below.

Fireplace Design

SIR,—Further to a recent discussion in your columns on economy of space and materials in fireplace design, I am reminded of an arrangement I had made some while on when some work valuable and is chosen ago when space was valuable and is shown on the 1-in, scale sketch enclosed. This it will be observed gives a 41-in, surround of insulating material all round the fire back.

back. In my view, for fires of larger size, say, 18 in. or 21 in., 9-in. brick backing (usually in cement mortar) is not adequate. If the breast were 9 in. wider, it would be possible to use a filling of insulation concrete in place of the solid insulating brick. This can be of foamed slag $\frac{1}{2}$ in. to $\frac{1}{2}$ in. 10:1 mil or in clean well burnt broken brick, broken into, say $\frac{1}{2}$ in growing aside or in clean well burnt broken brick, broken into, say, $\frac{1}{4}$ in approximately, throwing aside the fines, again with about 8 or 10:1 min. Care must be taken that there is not 100 much moisture in the aggregate and that it is only lightly consolidated. Quite apart from the protection this gives to the wall a the back of the fire from being unduly heated this insulation considerably increased heated, this insulation considerably increased the heating value of the fire. CHAS. J. BARKER Stratford-on-Avon

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STEEL

AMERICAN

HOUSE

PLAN

This steel prefabricated house has recently been erected in St. Louis, Ohio, USA.

Built by Lustron Corporation, it costs

\$8,500. The only non-steel parts of the structure are the concrete floor slab, the asphalt tile flooring, the aluminium window

frames and the glass window and door panes. It can be erected, after site preparation and the laying of the 35-ft. by 31-ft. floor slab, by four carpenters and

one labourer in about 12 days. The construction is of steel wall-frames and

trusses which are factory welded. Internal and external walls, the roof and ceilings are clad with porcelain-enamelled steel

Above, the plan, showing the typically American arrangement of rooms. Right,

top, the finished house, and, immediately

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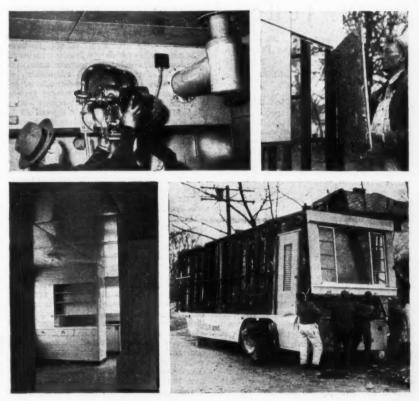
sion in ice and minded e while shown This it urround the fire ze, say,

(usually If the possible rete in This can):1 mix broken ng aside not too d that it te apart wall at unduly increases

below, the structure five hours after erection has started. The twenty wall sections are bolted to each other and to the floor slab. Some of the electrical wiring and plumbing is done in the factory. Centre, right, an oil-burning unit which warms the air in a chamber over the ceiling of all the rooms, and distributes heat uniformly throughout the house. Centre, extreme right, one of the two-foot square exterior wall panels being put into position. Glass fibre is med for insulation, and the joints between panels are fitted with a resilient waterproof plastic gasket. Right, the dining space as seen from the living room. right, the house, weighing thirteen tons, is carried by trailer from the factory to the site. BARKER









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.

R. W. Jefford

August 24. Paper on THE PREPARA-TION OF THE DEVELOPMENT PLAN FOR A CITY, read to members of the Town and Country Planning Summer School, St. Andrews.

R. W. Jefford: In this paper special reference is made to Bristol because Sir George Pepler advised me that you would like to hear what we are doing in this matter and because the city is a large one, has suffered serious damage by the ravages of war and forms a good example of the problems that face the planning officer today in a large city with influences spreading far beyond its present boundaries. We feel that the case for the rebuilding of war-damaged towns is urgent, but we feel that the new Cry of London "New Towns for Old" should not be allowed to drown the voices of the damaged cities. This view has not arisen from any envious motive, but from the disappointing results of applications for compulsory purchase orders.

The provisions of the Town and Country Planning Act, 1947, have given us the opportunity to prepare a comprehensive city plan on the widest possible basis, built upon a proper survey and related to the needs of the area. It has been fully realized by my Authority that only by concentrated effort by all concerned will the plan be formulated within the time limit set down in the Act. In this connection one cannot emphasize too strongly the fact that no one person could hope to be responsible for such a task and that team work is essential. In Bristol a good spirit of co-operation exists between the chief officers of the city. This must be said, however, that in our opinion there should be one officer responsible for co-ordinating the work, and because of this my Authority has appointed a City Planning Officer in charge of a separate Planning Department to carry out the work under the new Act.

STAFF FOR THE JOB

With the formation of the City Planning Department, which, by the way, includes the Local Bye-law and Building Surveyors' Section, it has been found necessary to divide the department into sections, under the control of the City Planning Officer and his Deputy, comprised of the following:—

No. of Authorized

		Stuff.	
1	Survey and Research,	sub-	
	divided into Maps, Fa	ctual.	
	Central Area, Sociolo	ogical	
	and Industrial		27
2	Development Plan		9
3	Reconstruction		8
4	Administrative		17
5	Development Control, in	clud-	
	ing Building Bye-law St		34

Each of these is controlled by a Section Head who is responsible for the output of his section. The object of such a set-up is to ensure that the limited staff is properly apportioned and the work programmed. The Section Heads meet with the City Planning Officer and myself from time to time to discuss matters of mutual interest and in this way no section can work independently of another, nor is any work duplicated.

THE OBJECT OF THE DEVELOPMENT PLAN

There seems a great danger that with all this planning we may standardize too much the designs for our towns and countryside —and for heaven's sake don't let us do that. May I make a plea that we endeavour to retain the present characteristics of our towns if they are at all worthy features. Fortunately, as far as my area is concerned, the levels and dominant features cannot be seriously affected and the individuality of the town is assured, however much we replan certain local areas. It is very provincial in character and should remain so. I should hate to think that if I lived to 80 or 90 years of age I could not get away from my own town and visit an area which is quite different, and thus refreshing to see and explore. We are all familiar with the pride our citizens take in special features such as a beautiful vista of buildings, a central open space, the presence of water in the very heart of the city. It may be a tragedy to so re-plan that these features

Tragedy to so re-plan that these features are altered materially. Unlike the old "Operative Scheme," the stage which few Authorities fortunately reached with their planning schemes, the Development Plan is now to be reviewed every five years. We are not to base the plan on so limited a period, but have been advised that twenty years is the longest period for which we can safely forecast the trend of events and needs of our area and this is the time factor upon which to base our Development Plan. There are material difficulties about this, in that much uneasiness and perhaps insecurity may be caused to landowners who have leased land for much longer periods and have paid development charges before commencing the development, unless some assurance is given that the zoning of the land will not be changed. Some development may take place in the first five years which will seal the character of that area for perhaps 100 years and will influence the zoning of adjoining land.

Another difficulty is that if we cannot forsee the kind of development in certain areas, are we then to leave that part of the area in its existing place for the purposes of the plan? Such a method, unless carefully applied, may make the Development Plan unintelligible, unworkable and perhaps even useless. My opinion is that it will be necessary to prepare two plans, one a Statutory Development Plan which will be the subject of a Public Inquiry, and the other a long term Master Plan showing the final evolution or, if you like, the city of the future. If this is done there would be a basic plan on which to review the short term plan each five years and amendments would not be made which might endanger the balance of the plan.

THE SURVEY

Some doubts have been expressed lately about the need for such elaborate statistics as have appeared from time to time, being studies of existing town structures intended as a basis for diagnosing the ills of the town and the remedy necessary to restore its health and vitality and to ensure the happiness and prosperity of its citizens. I believe opinion is hardening to the view that some of the detailed analysis might well be dispensed with. Many of the illustrations of methods recently adopted for surveys of population have related to townships of 60,000 or thereabouts and are impracticable when applied to a large city unless one is fortunate enough to have an army of assitants. One could not successfully conduct a house-to-house survey over the whole of Bristol in reasonable time; the task is too big. The conclusion we have reached on this question of survey is that only the information absolutely essential for the preparation of the outline plan and town plan can be available in the required time.

The first task with which we were faced was the supply of maps for the survey team. We are rather fortunate in having on the staff a team of ex-Ordnance Surveys standard. Consideration was given to the use of reproduction by aero-photo methods, but no advantage would have been gained in time and the result would not have been so good as our own department's maps, owing to the considerable amount of war damage which is not so easy to portray in built-up areas. The survey team, therefore, have the benefit of accurate maps not only for field work but for plotting in the office. We are grouping the following surveys because it is thought these can be introduced in one survey in the field: (a) Existing land us; (b) age and condition of buildings; (c) net accommodation density.

It may be of interest to quote the classes we have used to ascertain the condition of buildings.

P. (Poor)—Already condemned, or would be scheduled for demolition under Houing Acts if practicable, or extensively war damaged.

damaged. F. (Fair)—Undesirable—to be retained for a maximum period of 10 years. S. (Sound)—Buildings with reasonable life

of 10-20 years. G. (Good)—Buildings with estimated life

of over 20 years. As regards "P" and "F," advice is being sought from the Medical Officer of Health who is making a survey of these classes of buildings which are used as dwellings. The inclusion of buildings listed under "F" is of extreme importance because, when they form into a large block of buildings, it may indicate blight or obsolescence and it would an

seem feasible to include some of them in an area to be acquired compulsorily. Generally speaking, the "Age of Build-ings" Map can be completed from the comings Map can be completed notin the comp parison of Ordnance Survey maps issued at specified dates, but care is being taken to note when new buildings have been erected in place of old, but upon the original site area. The dates we have adopted to suit area. The dates we have adopted to suit our Ordnance Survey publications are as follows:—Prior to 1883, 1883-1914, and 1915-1949. The field survey will serve as a check on this map, as will also the refer-ence we shall make to our Plan Registers.

OPEN SPACES AND RECREATIONAL FACILITIES

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S cable It needs no very detailed survey to reveal the areas in the city which fall short of the standards of open spaces and recreational facilities considered desirable and our sur-vey will relate mainly to these areas. Even in the post-1914 period some housing estates sadly lacked open spaces, but there is little fear of recurrence of this in view of the large demands of the Board of Education for playing fields for certain age groups. It for playing fields for certain age groups. It is rather in the application of the survey to the plan that difficulties will arise and I propose to deal with this later on.

pose to deal with this later on. Maps are being prepared showing all the existing open spaces and recreational faci-lities tor the recognized groups. Bristol possesses a unique open space in the 400 odd acres which comprise the Downs, situated within comparatively easy access from the city centre and known to most motorists on their way to the south-west from the north and Midlands. This open space will be safeguarded for all time from any build-ing. The city also is at present negotiating a very large estate just over the border

of the city on the west side. I have now referred to most of the surveys considered essential as a preliminary to the outline plan, but the Ministry also require considerable detail of the reconstruction proposals for the built-up areas and men-tion must be made of this.

uon must be made of this. This is where the problem looms large, on matters such as licensed premises, office zones, central shopping area reservation and civic buildings. I could say much about the steps so far taken, but this is not a paper on reconstruction.

Mention must be made of the vexed ques-tion of "Floor Space Index" survey. I have heard it said that the monotony of carrying out such a survey is almost enough to upset the section of staff engaged on this task.

The job is a heavy one and the results, while helpful, not always worthy of the work entailed. Bristol has carried out a Floor Space Index survey for the main busi-ness centre within the Inner Circuit Road, but much of the information was based on but much of the information was based on Goad's maps, as being the only source to show where property has been destroyed. It becomes rather complicated when the users are so mixed. Apart from some local centres I do not think this survey is necessary be-yond the central area, and to carry it out the concentration of four to six officers over a period of months is necessary. On the question of licensed premises, per-

over a period of months is necessary. On the question of licensed premises, per-haps a "refreshing" subject after "Floor Space Index," there is now hope of real pro-gress by the Licensing Planning Committee, the Brewery Companies and the Council, and we hope shortly to reach agreement on the number of houses to be located in new housing estates and in the central shopping area. We expect also to report soon on the Position affecting the whole city.

Position affecting the whole city. So far I have raised such points as Staff-ing, Objectives, National Proposals and Sur-vey, and I want to deal briefly with the "Application of the Survey to the Outline Plan" Plan.

APPLICATION OF SURVEY TO BASIC MAP

It is hoped to complete the survey in about a year from now, which will allow a similar period to prepare the Basic Map and Pro-gramme Map and any comprehensive de-velopment area maps which can be com-pleted in this period. Whilst the statutory three-year period applies only to the Basic Map, it is hoped to submit the Comprehen-sive Development Area Plan for the central area within this period also. In order to be able to show the proposals on the 6-in. be able to show the proposals on the o-in. scale map, it is necessary to work up the plan on much larger scale maps, even to 1/500 for the central areas, so that much work will lie behind the apparently simple Basic Map.

Basic Map. As a start on the plan, a 6-in. map of the suggested neighbourhood units has been prepared mainly on local knowledge of the area. In all, there are 56 proposed neigh-bourhoods within the urban fence (which, by the way, does not coincide with the present city boundaries), and in order to arrive at the broad outline it was estimated that 50,000 people will, in the long-term development, form the overspill from the central areas, leaving a gross density of 40 persons per acre. This overspill has been translated into five new neighbourhoods: an attempt has been made to calculate the attempt has been made to calculate the population of all the neighbourhoods based on reasonable gross densities varying according to their location. Physical boundaries such as railways, roads and open spaces have formed the limits of each area. spaces have formed the limits of each area. This map has formed the basis of all dis-cussions and the results of the surveys will reveal how much it needs to be altered and where the outline zoning and reservation should be planned. Our ideas for the main industrial zones have been formulated so that great changes are not anticipated in industrial zones have been formulated so that great changes are not anticipated in this direction. For those who have not to deal with the rapidly increasing day-to-day inquiries, and applications for permission to develop, it may seem like "putting the cart before the horse" to carry out your survey afterwards, but when nearly all com-mittees are clamouring for sites for future development and industrialists are seeking land on which to rebuild anew some guide land on which to rebuild anew, some guid-

In order to keep some control over develop-ment taking place as the plan is in course of preparation, a Committee of Chief Officers, representing most of the Corporation cers, representing most of the Corporation Departments, meet periodically to exchange views on the use of land earmarked for vari-ous purposes, including land and property, on offer to the Corporation, and a measure of agreement is usually reached, enabling the officers concerned to report to their re-prestive committees before seeking the obthe officers concerned to report to their re-spective committees before seeking the ob-servations and blessing of the Planning and Reconstruction Committee. Another Chief Officers' Committee meets periodically to deal with matters arising out of reconstruc-tion problems. The Planning Officer is the co-ordinator in these discussions, so he is able to safeguard planning interests. The full significance of the population and accommodation surveys will not be realised until completed, but it is pretty obvious that most of the housing development in the next

most of the housing development in the next few years will take place on virgin land be-cause of the need to retain existing housing accommodation as long as is reasonably possible.

Education standards as applied to play-ing field requirements are one of the de-mands to be faced seriously, and, particu-larly in built-up areas, needs serious thought. To have to provide an area of 6 or 7 acres To have to provide an area of 6 or 7 acres for a new central school or an extension to an existing school on land now occupied by houses, poor though they may be, does not seem very practicable; and even where it can be provided, the joint use with the general public at certain hours would seem

an economic solution to the shortage of land in built-up regions where the cost of pro-

in built-up regions where the cost of pro-perty is high. I fail to see where all the land is to come from for school extensions, nursery schools, clinics, fire stations, community centres, open spaces and the like, unless some of the land for school playing fields is reserved on the outskirts of the city.

STAGES OF DEVELOPMENT

The basic plan must be accompanied by a programme map." Presumably we have to "stage" the development from the date of submission of the Development Plan to the 20-year period. If this is so, the answer is not so obscure, because even assuming a fair improvement in building labour and materials available, it is thought that re-development will be very limited in the first ten years, at least, in blitzed cities. The de-mands upon the finances of the city for re-construction will tend to exclude the better-ing of conditions in obsolete areas unless construction will tend to exclude the better-ing of conditions in obsolete areas unless the projects are sponsored by other Minis-terial Departments than Planning—such as Education, Health, Home Office for Police Divisional Headquarters, or where major road improvements are supported by the Ministry of Transport. Staging of development is not a new matter for cities concerned with reconstruction, be-cause the Ministry have insisted on the sub-

cause the Ministry have insisted on the sub-mission of details showing the time factor for the rebuilding of areas for which compulsory powers to acquire have been sought.

THE PUBLIC INQUIRY

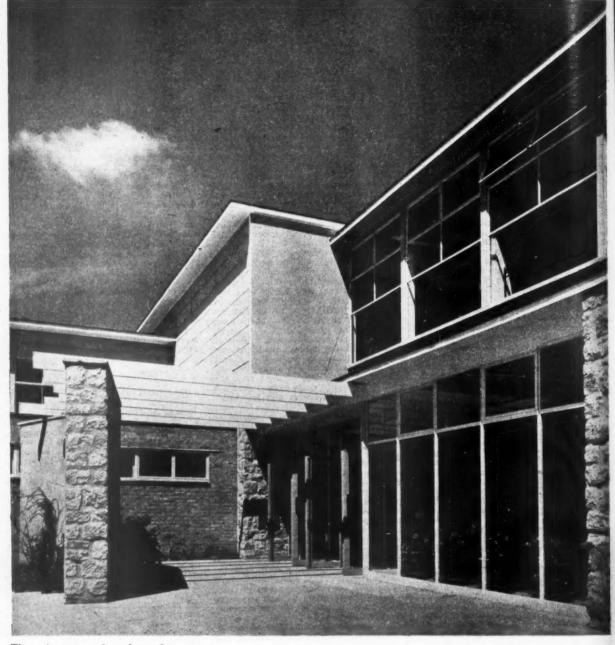
It is at the Public Inquiry that the value of a well carried out survey will emerge, be-cause opposition may be forthcoming on cause opposition may be forthcoming on questions of siting of new roads and widen-ing schemes, the amount of various kinds of zones and reservations, the answers to which are in the findings of the survey. Ade-quate additional evidence to support the proposal should be at hand if the Inquiry is to proceed satisfactorily to the Council and its Officers, who are responsible for the Development Plan. I have in mind reports on various sections of the plan, to which, as a witness, one can refer when questioned. a wittens, one can refer when questioned. This proved useful when the Public Inquiry into the Central Area Scheme was held and the same may well be adopted in an Inquiry of this nature.

One other point, arising out of this, before I conclude: it is the question as to how far the public should be taken into the confidence of the local planning authority in the initial stages of the plan and how far they can be allowed to dictate the provisions in the plan.

the plan. In Bristol we are perhaps very democratic in our ways, but we feel that the utmost co-operation should take place with all shades of local opinion. Many of them will conflict with the planners' and the Council's views, but on the other hand useful sug-gestions sometimes appear and, after all, it is the citizens who have to live in the city and it is their money indirectly, if not always directly, which pays for the improve-ments. ments.

CONCLUSION

This paper appears, perhaps, to labour the magnitude of the job and the problems which beset us, and may sound somewhat superficial, but there has been no time to go into details. I hope an impression has been given of what the preparation of a Develop-ment Plan for a large city means and how far we in Bristol have decided our line of action and moved toward our objective. action and moved toward our objective.



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The main entrance from the south.

SCHOOL AT STEVENAGE

BY F. R. S. YORKE, E. ROSENBERG AND C. S. MARDALL C. H. ASLIN, COUNTY ARCHITECT, HERTFORDSHIRE From left to right, the coat room block, part of the entrance hall, and the dining hall, above which will be added another storey for use as a community centre.

From left to right, the green rooms, the entrance and the staff room and library block.

nd library

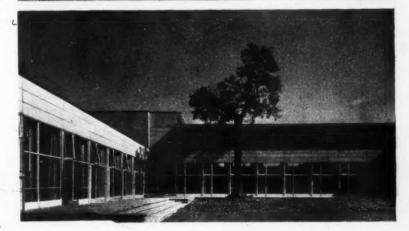
The classroom block, with the staff and library block in the background.

A model of the school. Right, the assembly hall from the north, showing part of the dining room.

GENERAL. — This. secondary modern school, designed for the Hertfordshire County Council, to accommodate 450 children also includes a community centre for adults and youths. The assembly hall with a stage seats 500 persons and is planned for use both by the school and the community centre.

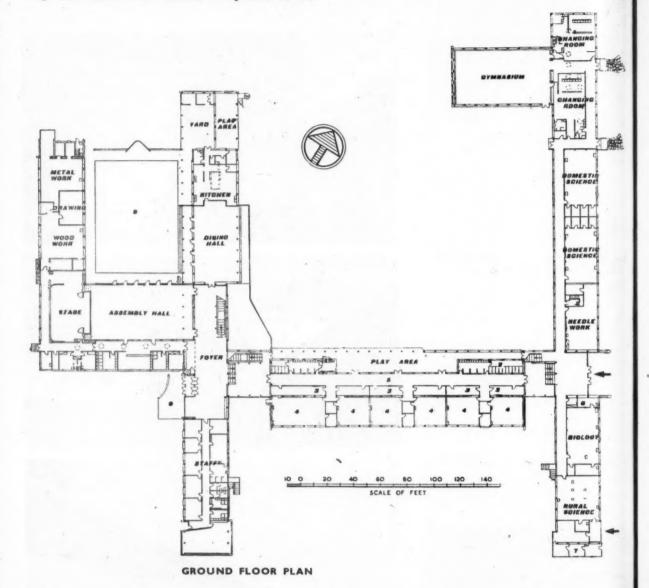
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KEY : I Boys' lavatories. 2 Girls' lavatories. 3 Coat rooms.

Classroom.

Transverse corridor.

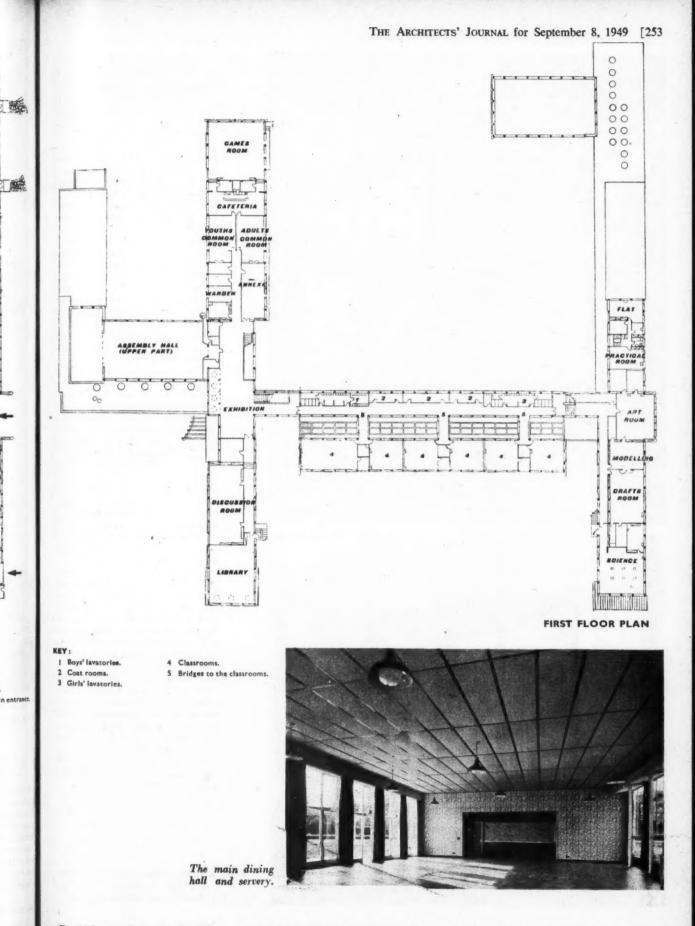
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- 6 Dark room.
- 7 Greenhouses.
- 8 Open air theatre.
- 9 Terrace to the main entrance.

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The library on the first floor.

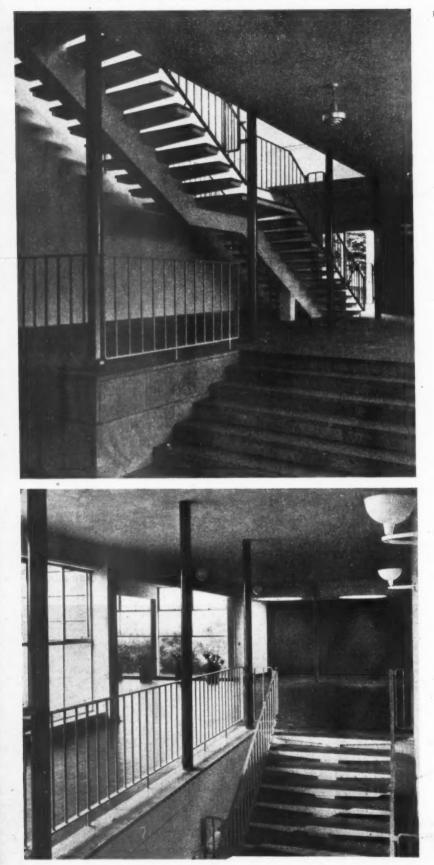


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BY YORKE, ROSENBERG AND MARDALL

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SCHOOL A

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[Text continued from page 251]

PLAN .- The plan is basically H. shaped with a wing extending towards the western end of the site. This wing contains the assembly hall facing on to an open quadrangle. The metal-work and woodwork rooms are also included in this part of the building as these create a great deal of noise and require to be isolated from the main school buildings. The parts of the school concerned with community activities are approached directly from a staircase in the entrance foyer and the rooms are directly over the dining room and kitchen. The community centre contains a games room, common rooms, a library and a cafeteria; also discussion rooms and exhibi-The community tion space. section of the building can be entered from the main entrance foyer without entering the school departments.

Leading from the foyer, the focal centre of the school, are the assembly hall, dining room, and the administrative block, with the library and discussion room above. The. classrooms may also be approached from the foyer, through an intervening lobby, with a change in the level. A two-storey block of classrooms forms the crosspiece of the H-plan. The problem of placing coat rooms and lavatories in close proximity to the classrooms while retaining adequate ventilation and lighting is overcome by building a separate two-storey lavatory block parallel to the classroom block. The intervening space is roofed at first floor level, covering a corridor and the coat rooms, leaving an open area above. On the first floor the area is crossed by three bridges. By this means it has been possible to introduce clerestory windows in the inner classroom walls on both floors.

The eastern leg of the plan contains, on the ground floor, biology laboratories, domestic science rooms and a gymnasium, with changing rooms and showers, well isolated from the classroom block. On the first floor are science laboratories, the art and craft rooms, a practical room and a flat for teaching housecraft.

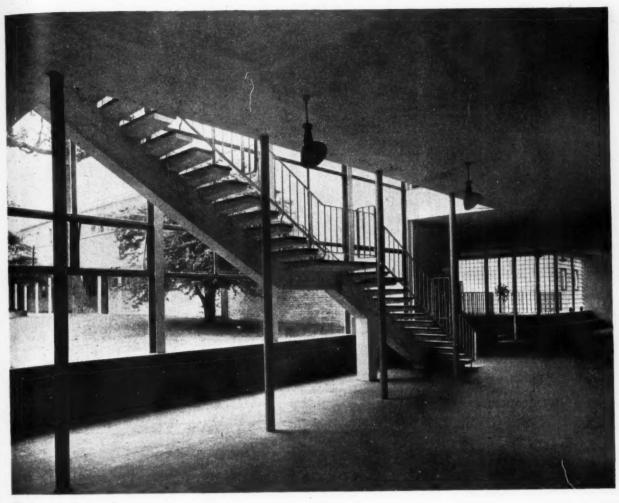
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STEVENA

Top, left, ground floor foyer, with a staircase to first floor classrooms. Left, the first floor landing and exhibition space.

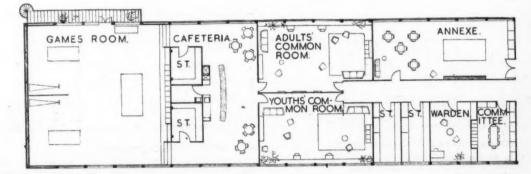
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The entrance foyer staircase.

PLANNING DETAILS AND NOTES



COMMUNITY CENTRE WING: [Scale: #"=1'0"]

The Youth and Adults Games Room has a billiards table with raised seating for spectators on one side. Table tennis, and other tables are also provided, as well as chairs and settees. There is a balcony with a spiral fire-escape outside the games room. A cafeteria is provided for supplying light refreshments. This has a service lift from the kitchen.

The Annexe has a billiards table, and cue racks, shelving, store cupboards and chairs, with an adjacent store room. The wardens' rooms, committee room and filing room are also in this block.

YORKE, ROSENBERG AND MARDALL

The Discussion Room, beyond an exhibition space on this floor, has provision for lantern or epidiascope shows. Shelving and display cabinets are also fitted. Part of the wall space has corkboard panels for pin-up and exhibition purposes.

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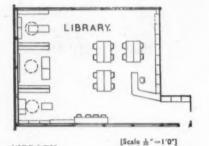
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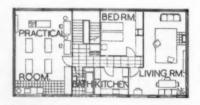






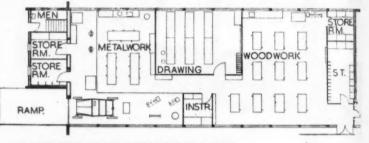
LIBRARY :

The Library has 144-ft. run of 12-in. glass-fronted shelving for loan and precious books with cupboards underneath. 360-ft. run of adjustable shelving for reference books with a maximum height of 7 ft. from the floor level. Periodicals are displayed in a special rack with a 10-ft. long reading table under the window. Maps are kept in a plan chest with a glass top for display purposes. A catalogue cabinet, desk and the usual furnishings are provided for the librarian. The lighting is general with no table lamps. There are chairs and study tables for thirty children.



HOUSECRAFT ROOM AND FLAT:

The Practical Room contains six work tables, a 4-ft. by 2-ft. demonstration table and gas and electric cookers. There are three deep cupboards and a range of shelves, with lockers and notice board. The Flat has living, bed and bath rooms, with a housemaid's closet and linen cupboards, and is complete with furniture, pictures and carpets.



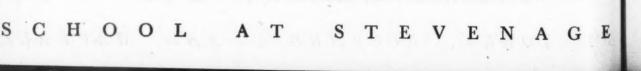
WOODWORK AND METALWORK ROOM:

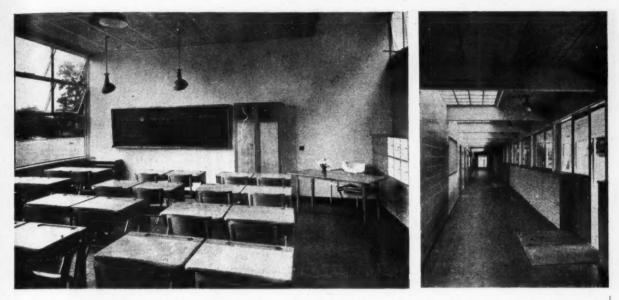
The Metalwork Room contains three tables 9 ft. by 2 ft. 9 in. with six vices on each. One 4-ft. by 3-ft. setting-out table. One metal-topped bench 9 ft. by 2 ft. with two gas points for soldering and to carry one hand shearing machine, one metal-topped bench 6 ft. by 2 ft. to carry one garage vice, one pipe vice, one Smith's leg vice; one brazing hearth 24 in. diameter, with power point for electric blower. One sink 2 ft. by 1 ft. 9 in. by 10 in. Forge bay 3 ft. by 3 ft., two anvils, 4-ft. by 1-ft. 8-in. A ROOM: lathe, 3-ft. by 1-ft. 8-in. lathe, pillar drill,motorized grinder, power hacksaw. **The Woodwork Shop** contains ten benches with vices, cupboards for work and tools under, 5 ft. by 2 ft. 6 in. by 2 ft. 6 in. each for two boys. 4-ft. by 3-ft. setting-out bench. 2-ft. run metaltopped bench for glue pots, sink, 4-ft. run for glueing, 4-ft. run for sharpening. Wood-turning lathe, power point. Four sawing stools 3 ft. by 1 ft 6 in. The instructor's room has cupboards for books, special tools, equipment, etc.



DOMESTIC SCIENCE ROOMS:

The Needlework Room contains ten 4-ft. by 2-ft. 3-in. tables, with one collapsible 6-ft. by 3-ft. cutting-out table. Sink with draining boards. 8-ft. run of 2-ft. deep cupboards. Four power points for irons and sewing machines. A fitting alcove screened by curtains, and a store with a 11-ft. run of hanging space, a large cupboard and shelving. The Domestic Science. Room contains the following equipment: three gas cookers, one gas iron heating stove, one gas copper next to the slop sink, three electric cookers, one electric copper, one drying cabinet, one refrigerator, with power points for additional equipment. Ten 5-ft. 3-in. by 2-ft. 6-in. cookery tables with drawers, cupboards, pastry boards, each for two children. One 6-ft. by 3-ft. collapsible table.





Opposite : left, a typical boys' lavatory block ; right, the staff Above : left, a ground room. floor classroom ; right, a ground floor corridor.

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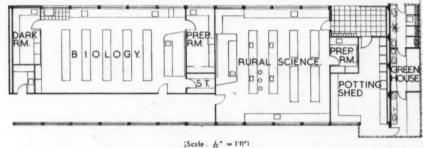
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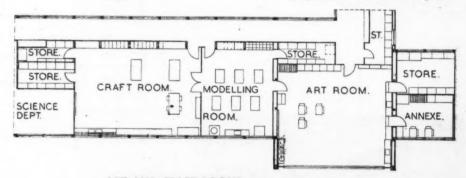
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BIOLOGY LABORATORY

The Biology Laboratory has fixed and movable benches, with gas points, a long wall bench, with sinks, and an observation beehive. There is a demonstration bench and blackboard for the instructor. Some of the school meters are in this laboratory for teaching purposes. A screen is provided for slides and film-strips. Adjacent is the preparation room, containing a refrigerator, with radiator and power points for incubators.

The Rural Science Laboratory has both fixed and movable benches with gas and fixed and movable benches with gas and low voltage power points. There are wall benches with sinks and a demon-stration bench. A screen for film strips and a radio loudspeaker are in this room. The preparation room, potting shed and greenhouse are adjacent leading directly to the experimental garden, with its pond, and meteoro-logical station. There are sheds for tools, livestock and fodder compost.

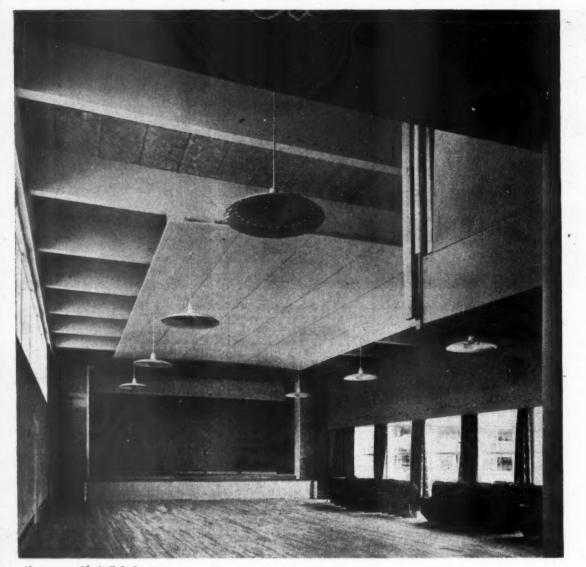


ART AND CRAFT ROOMS

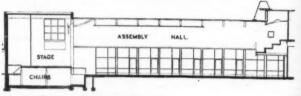
The Art Room has large windows along Two sinks with wood drainers, tiled back with 6-in. shelf over, and pot boards under for palettes and trays. Flower box sunk in floor for plants in pots and jars. Long wall lit by north-west window has cork-board for

pin-ups from 2 ft. 6 in. to 6 ft. 9 in. pin-ups from 2 ft. 6 in. to 6 ft. 9 in. high. Flush picture rail over. Drawers, 2ft. wide and 1 ft. 6 in. deep, are in tray form and pull right out, for pencils, brushes, paints. Racks for drawing boards. Blackboard with white screen over. Tables, easels, stools, stack and move easily.

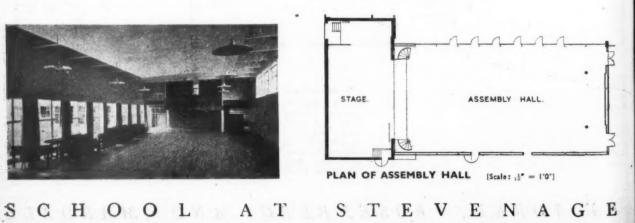
BY YORKE, ROSENBERG AND MARDALL



Above, assembly hall, look-ing towards the stage; below, looking towards the balcony.



SECTION OF ASSEMBLY HALL

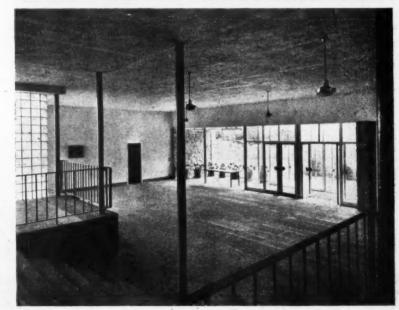






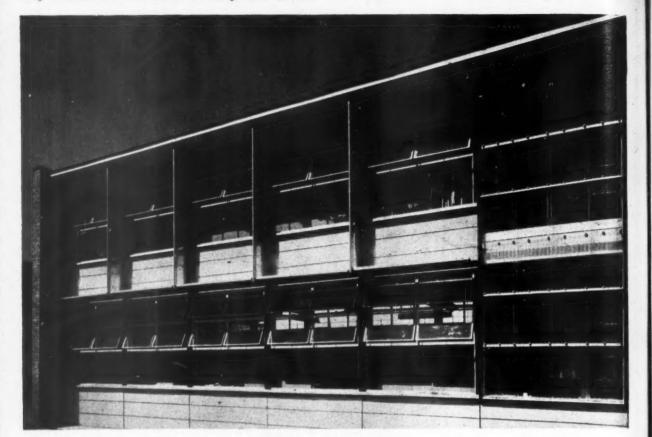
Assembly Hall. 3,000-ft. super to seat about 500, wired for broadcast. Flat floor, flat stage raised 3 ft. from hall floor. Movable nesting chairs to be stored in 6-ft. high space under stage. Foyer, cloakrooms and lavatories for men and women. Lighting for all purposes, including two spot lights for stage, on side walls, some distance from proscenium opening.

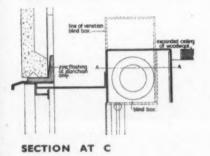
Stage. Proscenium opening 20 ft. wide, 12 ft. high, with higher opening possible for concerts. Stage 24 ft. 6 in. deep with apron 5 ft. wide in front, and 20 ft. wide. Plastered back wall for cyclorama curved at sides. Top 5 in. of apron movable. Steps leading to auditorium built in sections and movable. Lighting battens 3 ft. above proscenium opening and in floor in front of cyclorama. No footlights. Backstage switch panel, controlling auditorium also. Wings 10 ft. on each side of proscenium opening plus 5 ft. one side and 10 ft. the other, for properties, work on scenery, etc. Wings 15 ft. high, Floor of stage, softwood. Hinged reflector over apron stage adjustable to suit varying uses.

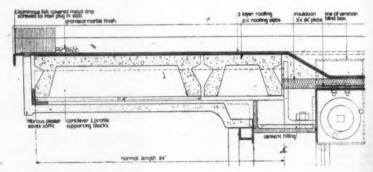


BY YORKE, ROSENBERG, AND MARDALL

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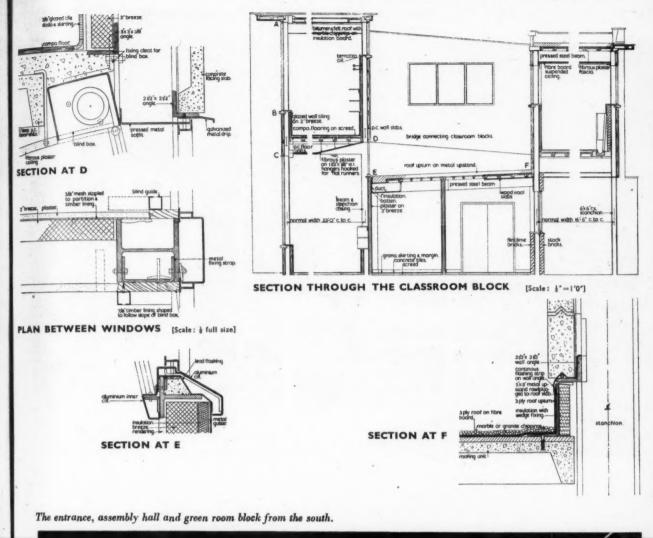
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CE

SECTION AT A



Above, detail of the windows, with sunbreakers, in the south-east facade of the classroom block : below the two storey classroom block from the south.





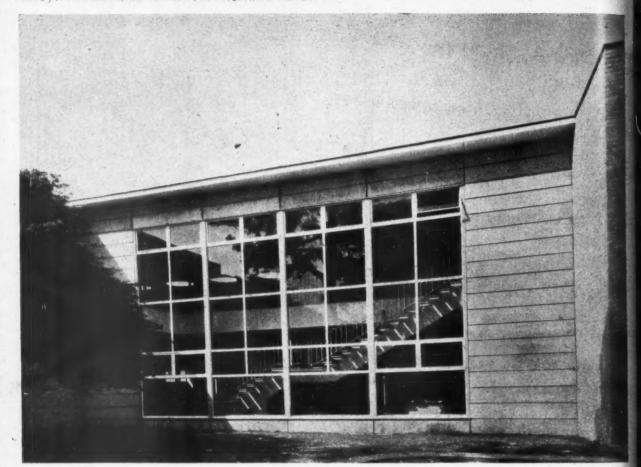
or bled st partition OWS

612 Little

ull size]

E

BY YORKE, ROSENBERG AND MARDALL



The main staircase and foyer window from the east.

[Text continued from page 254]

CONSTRUCTION. - The main construction consists of a light steel frame, with welded lattice beams and 6-in. by 6-in. broad flange R.S.Js., designed on a grid of 8 ft. 3 in. Precast concrete slabs are used for constructional flooring and roofs. The roof slabs are covered with three layers of bituminous roofing, laid on insulation boarding, with granite or marble chips as the final covering. The ceilings are wood wool, or fibreboard, placed immediately beneath the roof slabs on the first floor, and under the lattice beams on the ground floor. The external walls, containing windows, have a 6-in. cavity with an outer cladding of concrete slabs and an inner lining of 3-in. breeze blocks. Flank walls not containing windows are of stock

INTERNAL FINISH.—Floors :— Teaching rooms and corridors : wood fibre composition block. Coat rooms : concrete tiling. Lava-

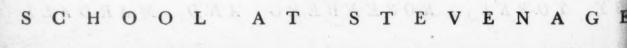
bricks.

tories : terrazzo. Entrance hall and foyer : Hornton stone paving. Walls : the interior walls in the classrooms have glazed tiling up to cill height, 2 ft. 3 in., with plaster above that level, with cork board on one long wall for pinning up maps, etc. The back walls of each classroom are covered with fabric to protect them from marks caused by chairs. Otherwise the walls are generally finished with lime plaster, except in the lavatories which are tiled to cill height, and the ground floor corridor which has tiled panels on one side with cork board panels for notices, and fair-faced flint-lime bricks on the other. The metal and woodwork rooms have fair-face flint-lime brick walls and movable glazed metal partitions.

SERVICES.—*Electrical services :* These include, besides the normal lighting and power circuits, telephones, clocks and a remote control radio system. All cables are copper sheathed and laid in heating pipes, ducts or direct in the floor screed. Classroom lighting is by metal reflectors, with opal diffusing bowls and metal angle reflectors for lighting the blackboard. Heating : Low-temperature copper coils embedded in the floor screed are heated by thermostatically controlled oil-fired boilers. In addition a higher temperature circuit heats the coat rooms, lavatories. workshops and administrative rooms. A partial air-conditioning system has been installed in the assembly hall, coat rooms and kitchen, foul air being extracted from these sections of the building by electric fans.

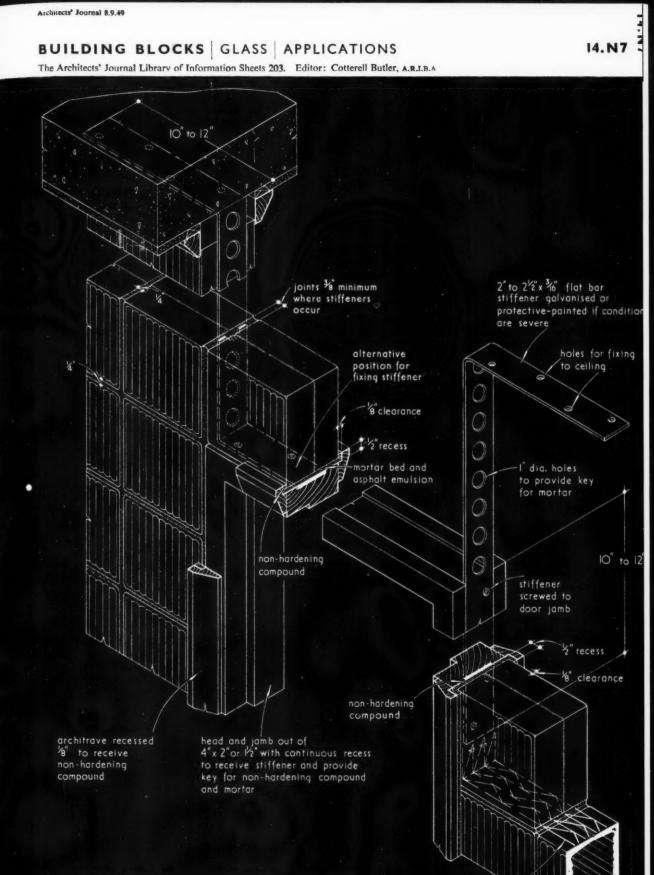
The assistants on the design and construction of the school at Stevenage were T. R. Evans, R. R. Tomalin, C. A. Kitchen and Miss P. Whiting.

The general contractors were Messrs. Gilbert Ash, Ltd. For list of sub-contractors, see page 239.









ISOMETRIC VIEW SHOWING RELATIVE POSITIONS OF GLASS BLOCKS, DOOR FRAME AND STIFFENERS

DOORS FIXED IN INSULIGHT HOLLOW GLASS BLOCK INTERNAL PANELS, Manufacturer: Pilkington Brothers, Limite

non-corrodible

reinforcement

14.N7 DOORS AND WINDOWS FIXED IN · INSULIGHT · HOLLOW GLASS BLOCK INTERNAL PANELS

This Sheet describes the fixing of doors and windows in hollow glass block internal panels. Sheet 14.N8 describes the fixing of doors in external panels and Sheet 14.N9 deals with the fixing of windows in external panels. Sheet 14.M1 gives standard shapes and sizes of blocks together with tables of dimensions of openings to accommodate panels up to 20 ft. high or 20 ft. wide, and area not more than 120 ft. super. Sheets 14.N5 describe the construction of internal panels using hollow glass blocks.

Construction

It is essential that the frames be rigidly connected to the main structure so that shocks caused by slamming and hard usage will not be transmitted to the surrounding glass block panels.

Doors: The overall width of the frame must be calculated as a multiple of blocks with allowance for joints. The height is adjustable at the skirting and the ceiling. Where the sides of the main structure are nearer to the door frame than the ceiling, horizontal stiffeners, preferably at head level, should be used.

Windows: The fixing of windows in internal glass block panels is similar to that for doors and the same principles should be followed.

Panel Sizes

Insulight hollow glass blocks are non-loadbearing units, and although they will carry their own weight safely up to a reasonable height it is necessary because of wind pressure and other stresses to put intermediate support in panels where the height is more than 20 ft., the width more than 20 ft. or the area more than 120 ft. super. These dimensions may be exceeded for internal panels in certain cases.

Fixing

Treatment at head and jambs: In all panels, the head and sides must be built free of the main structure except for the reinforcement—to prevent panels being subjected to strains due to settlement, building load, or expansion. A $\frac{1}{2}$ in clearance should be provided which must be kept free of mortar spillings, and filled with a non-hardening compound. Where intermediate support or structural dividing members are introduced into panels the glass blocks must be insulated by clearance joints. In external panels, recesses into which the head and sides are built free of the main structure must be provided, except where the dimensions of the panel do not exceed 8 ft. high by 2 ft. wide, or 6 ft. high by 3 ft. wide. The recess should be $4\frac{1}{4}$ in. wide by 1 in. deep, allowing $\frac{1}{2}$ in. clearance and $\frac{1}{2}$ in. cover with $\frac{1}{4}$ in. play on either face; the $\frac{1}{2}$ in. clearance should be filled with a nonhardening compound to provide a weatherproof joint. In internal panels, rebate fixing is recommended : in certain cases butt fixing can be used.

Treatment at sill: Before the bottom course is laid, the sill should be coated with an asphalt emulsion or similar material, and the blocks then bedded with mortar as specified below, so as to allow for slight movement without disrupting the mortar bed and thereby preserving the weather-resistance of the panel.

Reinforcement : Reinforcing strips should be built into every third to every fifth course dependent on the size and position of the panel. The ends should pass through the clearance joint and be secured to the main structure. Such a material as "Exmet" $2\frac{1}{2}$ in. wide No. 20 gauge expanded metal has been found suitable for this purpose.

Bedding and pointing: As glass blocks are nonabsorbent a fairly dry and fatty mortar should be used. A suitable mix is one part Portland cement, one part hydrated lime (preferably lime putty) and four parts of sand by volume. Clean builders' sand free from gravel (not sea sand) should be used. The face of the joints may be struck back and smoothed during erection. If coloured joints are required they may either be picked out in colour by painting after the mortar is thoroughly dry or raked out at the time of erection and later pointed with coloured cement. The pointing may be of any form or finish; a keyed joint formed with a curved jointing tool is the normal one.

Further Information

The Manufacturers maintain a Technical Research and Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by :

Pilkington Brothers Ltd.

Head Office :	St. Helens, Lancashire.
Telephone :	St. Helens 4001.
London Office :	63, Piccadilly, W.1.
Telephone :	Regent 4281.

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PAINTS WATER

The Architects' Journal Library of Information Sheets 204. Editor: Cotterell Butler, A.R.I.B.A.

For the preparation of Walpamur and Petrifying Liquid (or water) mixes see the reverse of this Sheet.

Surface	Preparation	Treatment		
New surfaces not dry: lime plaster, hardwall plaster, Portland cement rendering, brickwork.		1st coat: Walpamur thinned with water. 2nd coat: Walpamur thinned with water.		
New surfaces dry and chemically neutral: lime plaster, hardwall plaster, Portland cement rendering, brickwork, masonry, rough cast mortar, asbestos-cement sheets.	Remove plaster nibs, efflorescence and all loose material.	 1st coat: Walpamur thinned with Walpamur Petrifying Liquid. 2nd coat: Walpamur thinned with Walpamur Petrifying Liquid. If surface is very porous specify one coat Walpamur Primer and two coats Walpamur thinned with Walpamur Petrifying Liquid. If two-coat work on a porous surface is re- quired omit third coat and specify Walpamur Tinted Primer for 1st coat. 		
New surfaces dry but still alkaline: Portland cement rendering, asbestos-cement sheets.		 1st coat : Alkali-resisting Primer. Allow to dry thoroughly. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. 3rd coat : Walpamur thinned with Walpamur Petrifying Liquid. 		
New surfaces dry and chemically neutral : Keene's cement, Parian cement, fibrous plaster.		1st coat : Walpamur Primer. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. 3rd coat : Walpamur thinned with Walpamur Petrifying Liquid. On Keene's and Parian cement the Walpamur Primer should be reduced to a very thin consistency with turpentine (approximately 1 to 1 ¹ / ₂ pints turpentine to 1 gallon of Primer).		
Water painted surfaces (all types) in bad condition.	Wash down with warm water. Scrape to remove loose material. Remove grease. Allow to dry. Glass-paper where flaking has occurred to merge edges and dust down.	 1st coat : Walpamur Primer. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. 3rd coat : Walpamur thinned with Walpamur Petrifying Liquid. 		
Water painted surfaces (all types) in good condition.	Wash down with warm water. Re- move grease. Allow to dry.	 Ist coat : Walpamur thinned with Walpamur Petrifying Liquid. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. 		
Size-bound distempered or lime- washed surfaces (all types).	Scrape thoroughly and wash off with warm water to remove loose material. Remove grease. Allow to dry.	1st coat : Walpamur Primer. 2nd coat : Walpamur thinned with Walpamur Petrify- ing Liquid. 3rd coat : Walpamur thinned with Walpamur Petrify- ing Liquid.		
Oil painted surfaces (all types) old and without elasticity.	Wash down with warm water and rub down wet. Remove grease. Allow to dry.	Ist coat : Walpamur thinned with Walpamur Petrify- ing Liquid. 2nd coat : Walpamur thinned with Walpamur Petrify- ing Liquid.		
Papered surfaces with paper firmly Brush down to remove dust. dhering. Colour of paper not ikely to bleed.		 1st coat : Walpamur thinned with Walpamur Petrifying Liquid. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. If very absorbent, prime with Walpamur Tinted Primer and follow with one or two coats of Walpamur thinned as above. 		
Papered surfaces with paper firmly adhering. Colours liable to bleed, e.g., red, green, mica, gold, etc.	Brush down to remove dust. Treat bleeding colours with one thin coat Stop Tar Knotting No. 5075. Allow to harden.	1st coat : Walpamur Tinted Primer. 2nd coat : Walpamur thinned with Walpamur Petrify- ing Liquid. If the whole of the surface is coated with Stop Tar Knotting omit Walpamur Primer and apply two coats of Walpamur thinned as above.		
Woodwork and/or wallboards : unpainted.	Glass-paper to remove loose particles. Treat knots one coat No. 5014 genuine shellac knotting. Allow to harden.	 1st coat : Walpamur Primer. 2nd coat : Walpamur thinned with Walpamur Petrifying Liquid. 3rd coat : Walpamur thinned with Walpamur Petrifying Liquid. If two coats only are required omit third coat and specify Walpamur Tinted Primer for priming coat. 		

38.B

Architests' Journal 8.9.49

38-B1 WALPAMUR OIL BOUND WATER PAINT

This Sheet describes Walpamur Oil Bound Water Paint and ancillary materials and sets out in tabular form the appropriate specifications for treating a number of types of surface.

General

Walpamur Oil Bound Water Paint is prepared for use by thinning with Walpamur Petrifying Liquid or water. Correctly thinned and applied it produces a smooth matt finish, which is hygienic, durable and fire-retarding. Walpamur is generally used for interior work but a special quality is made in suitable colours for exterior use. Exterior quality Walpamur must be specified to be thinned with Walpamur Petrifying Liquid. It should not be applied during damp or frosty weather.

Materials

Walpamur: The basic material, in paste form, is supplied in a wide range of colours all of which are intermixable. It should be protected from frost and extreme heat during storage.

Walpamur Petrifying Liquid: Used as a thinner for Walpamur this liquid adds to its durability and tends to improve its appearance by checking surface porosity. It also increases smoothness of working and thus enables greater spreading capacity to be obtained than when thinned with water. Walpamur Petrifying Liquid is intended only as a thinner for Walpamur and not as a preparatory or priming coat to be used alone.

Walpamur Primer: This is a specially prepared oil medium possessing properties which enable it to penetrate porous surfaces and seal loosely bound particles remaining after removal of lime-wash, sizebound distempers, etc. It stops surface porosity and provides a satisfactory foundation for Walpamur.

It is supplied in transparent form and also in a range of tints suitable for use with standard tints of Walpamur.

Walpamur Stainers: These are manufactured for producing special tints which cannot conveniently be obtained by intermixing standard tints of Walpamur. No other form of stainer should be used. These stainers possess powerful staining properties and can be used alone for decorative work, such as picking out, stencilling, etc.

Preparation and Application

Brushing: Coats should be liberally applied and laid off evenly; a 7 in. flat distemper brush is most suitable for general use. At least 24 hours should be allowed between coats. The Walpamur paste should be thinned slowly with Petrifying Liquid or water in the following approximate proportions (overthinning should be avoided):—

2½ gallons Walpamur Petrifying Liquid to 1 cwt. Walpamur, or 1¾ gallons water to 1 cwt. Walpamur.

Spraying: Coats should be liberally applied, and the first coat allowed to dry before the next is applied. The Walpamur paste should be thinned slowly with Petrifying Liquid or water in the following approximate proportions (avoiding overthinning):—

3 to $3\frac{1}{2}$ gallons Walpamur Petrifying Liquid to 1 cwt. Walpamur, or 2 to $2\frac{1}{2}$ gallons of water to 1 cwt. Walpamur.

Stippling: For general work, Walpamur does not require stippling but the finishing coat may be so treated if desired.

On no account should any surface be sized prior to the application of Walpamur.

Spreading capacity: On normal smooth surfaces 1 cwt. of Walpamur thinned with Walpamur Petrifying Liquid will cover approximately 350 sq. yards, in two coats, by brushing process. Considerable porosity or roughness of surface naturally decreases the spreading capacity.

Further Information

The manufacturers maintain an Advisory Department which is available for advice on technical problems relating to paints and painting and the preparation of specifications and colour schemes. "Paint Specifications," a booklet containing fully detailed specifications and useful technical information is available from the manufacturers.

Compiled from information supplied by :

The Walpamur Company, Ltd.

Head Office, Works and Advisory Department: Darwen, Lancs-Telephone : Darwen 662. London Office : 125, High Holborn, London, W.C.1. Telephone : Holborn 4615.

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

TECHNICAL SECTION

MIXED METALS

One of the most serious objections to the use of metals is the danger of corrosion. There are a number of broad categories into which corrosion problems can be divided, such as atmospheric corrosion, chemical attack when metals are in contact with certain other materials in the presence of moisture, and other such obvious examples as liquids or gases from trade processes. A little more obscure is the type of corrosion which sometimes occurs from galvanic action when two different metals are in contact.

This galvanic action can occur in many ways in buildings, as, for example, in the mixing of metals for flashings, gutters and rainwater pipes but one of the most frequent sources of trouble is in small heating and hot water systems such as normally occur in domestic work.

As the reasons for corrosion of this type have not always been very clearly understood it is useful to note that Building Research Station Digest No. 8* explains clearly the results of investigations into this subject by the British Non-Ferrous Metals Research Association.

It is clear that the most common defect is the corrosion of galvanized steel hot water tanks and that this occurs chiefly where they are fed by copper pipes or copper boilers. The formation of scale from hard waters may be sufficient to give protection, and this accounts for the rather mystifying variability of attack in some districts. The temperature of the water affects the rate of corrosion as also does the type of water supply. The BRS note elucidates all these variable factors but having done so, makes it fairly obvious that, in general, it is wise either to construct the whole system in copper or, alternatively, to have it all in galvanized steel with a cast-iron boiler. Which of these alternatives is to be chosen must depend upon the characteristics of the local water supply and advice should usually be obtained from the supply company.

Failures of a similar kind are less common in cold water cisterns but they do sometimes occur and the BRS Digest also refers to these.

The whole note makes a brief and clear statement of immediate and direct practical interest to architects and builders and is an excellent example of the boiling down of facts resulting from a considerable period of detailed research and investigation.

• The use of Copper and Galvanized Steel in the same Hot Water System. See Information Centre 12.36.

2641

TECHNICAL SECTION

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

INFORMATION CENTRE

I SOCIOLOGY. 2 PLANNING : General. 3 PLAN-NING : Regional and National. 4 PLANNING : Urban and Rural. 5 PLANNING : Public Utilities. 6 PLAN-NING : Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN : General. 10 DESIGN : Building Types. II MATERIALS : General. 12 MATERIALS : Metal. 13 MATERIALS : Timber. 14 MATERIALS : Concreta. 15 MATERIALS : Applied Finishes, Treatments. 16 MATERIALS : Miscellaneous. 17 CONSTRUCTION : General. 18 CONSTRUCTION Theory. 19 CONSTRUCTION : Details. 20 CON-STRUCTION : Complete Structures. 21 CONSTRUCTION MACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHT-ING. 25 WATER SUPPLY, SANITATION. 26 SERVICES EQUIPMENT : Miscellaneous. 27 FURNITURE, FIT-TINGS. 28 MISCELLANEOUS.

4.52 planning : urban and rurel PLANNING, EAST BENGAL

Review of First Year's Progress in Civic Planning: East Bengal, Pakistan. E. C. Hicks. (The Author, Government of East Bengal, Dacca, Pakistan. 1949.)

Duplicated typescript accompanied by maps and diagrams. Notes on preparatory planning work under difficult conditions owing to absence of accurate maps and lack of qualified planning staff. Description of tentative planning schemes for Dacca, Pakistan.

The author, who is consulting architect and town planner to the Government of East Bengal at Dacca, begins his review of planning activities with a description of the administrative background. His planning department was set up in February, 1948, as a sub-division of the Department of Architecture, Communications, Buildings and Irrigation of the Government of East Bengal. The staff consisted of two Muslim valuers acting as planning officers and recruited from the Calcutta Improvement Trust, some junior draughtsmen, and office boys. A planning sub-committee was formed to act as the co-ordinating body.

This, some planoing sub-committee was formed to act as the co-ordinating body. The initial planning sub-committee was formed to act as the co-ordinating body. The initial planning programme included the selection of sites in Dacca for the housing of government clerical staff, for industrial development to an extent of about 500 acres, and for the provision of commercial and business premises. Proposals for the location of these sites had to be submitted within 34 weeks. They were based on a study of existing land-ownership maps which had been compiled 35 years ago, and were presented in the form of a new map showing land utilization together with landownership. A skeleton replanning scheme was then submitted to the planning committee which involved 30 square miles of development. It included proposals for trunk and secondary roads, railway diversions and new stations, aerodrome development, zones for heavy, medium and light industries and for business, commercial and administrative areas, open spaces, residential areas, and, lastly, for land resettlement areas and those land areas where building operations were to be prohibited owing to monsoon flooding.

THE ARCHITECTS' JOURNAL for September 8, 1949

The author's report contains detailed explanatory remarks concerning the background to the planning proposals and the actual progress of work. An aerial survey of Dacca is being carried out in order to have accurate data for the final master plan. In the meanime, tentative development plans for various areas have been worked out, mostly to a scale of 66 feet to an inch. These developments are all confined to rural areas outside the Dacca municipal boundafies, as 23 per cent, of the town is subject to flooding, as it has an existing density of 300 persons to the acre and no public open spaces. Residential, industrial and business sites, as well as new public buildings, are all to be laid out on uncultivated rural land, the policy being not to demolish a single permanent building for reasons of compensation and lack of accommodation.

has already started. They concern an industrial area, a housing estate for private citizens, and a commercial and business area. An illustrated description of these schemes and their progress is provided.

schemes and their progress is provided. Other work undertaken by the planning department includes re-drafting of building bye-laws, the preparation of new legislative measures, and the formation of an Improvement Trust.

Finally, the author draws attention to the serious problem of shortage of trained planning staff and refers to the necessity to accept offers for qualified assistance from France, Belgium and Italy unless local advertisements for staff meet soon with sufficient response.

In addition to the illustrations already noted, the report contains a chart comparing the time taken in the preparation of plans in East Bengal with that in England. The progress over 18 months, in spite of all the difficulties encountered, is remarkable.

11.17 materials: general ADDENDUM TO BS HANDBOOK

BS for Building Materials and Components for Housing. P.D.905. Addendum No. 2, 1949, to BS Handbook Np. 3, 1947. (British Standards Institution. 56.)

Summaries of 25 new BS's and 18 revisions. Supercedes Addendum No. 1 and with the original Handbook gives all essential information for day-to-day purposes of 265 BS's current on December 31, 1948.

This addendum together with Handbook No. 3 (which is still available at British Standards Institution, price 21s.) is essential to all architects who are not subscribers to the Institute but wish to keep abreast with recent developments. They provide at a moderate price a valuable and convenient source of reference.

Although the selection of the specifications was made primarily for housing, the majority apply equally to other building types. For example, this addendum includes summaries of new BS's for pitch mastic flooring and coloured pitch mastic flooring (1450:48 and 1375:47 respectively), similarly plain and coloured mastic asphalte flooring (1410:47 and 1451:47), also metal lathing (1369:47), copper tubes for underground use (1386:47), steel tubulars (1387: 47) and metal window sub-frames, etc. (1422:48).

Rainwater goods of aluminium are included (1430:47) and of wrought copper and zinc (1431:48). Of the revisions 381C/48 gives the latest colour range for ready mixed paints but unlike the Handbook the actual tints are not shown. This is unfortunate as the full BS is out of print until October.

12.36 materials : metal

CORROSION OF HOT WATER TANKS

The Use of Copper and Galvanized Steel in

the same Hot Water System. (Building Research Station Digest No. 8, 1949.)

Brief but complete explanation of dangers of corrosion in hot water systems where copper and galvanized steel are used in conjunction.

This Digest gives an excellent analysis of the causes of corrosion failure in hot water systems, and especially in storage tanks, resulting from the mixture of copper and galvanized iron.

galvanized iron. Certain types of water dissolve minute amounts of copper. Some of the copper is then deposited on the zinc when electrolytic action takes place causing very rapid attack on the zinc.

In practice a number of factors affect the rate of attack and the Digest explains these clearly. The conclusion reached is that it is rarely safe to mix copper and zinc in the same hot water system. Attack in cold water systems is comparatively rare but the cold cistern sometimes suffers if a hot water overflow is incorrectly placed. The Digest is a most useful explanation

The Digest is a most useful explanation of a rather obscure but all too common defect in buildings, especially domestic buildings.

13.45 materials : timber MOULDING PLYWOOD

The Moulding of Plywood. W. Nichols. (Timber News, June, 1949, pp. 245-7.) Description of methods of moulding wood

Description of methods of moulding wood veneers to shapes of composite curvature, including construction of moulds, application of heat and pressure and types of adhesive.

Veneers may be from 0.01 to 0.05 inches thick and may be moulded by application in strips, each layer at right angles to the next, to a radius not greater than 75 to 80 times the thickness of veneer.

14.25 materials : concrete CONCRETE PUMP

New Concrete Pump. (Building Digest, Aug., 1949.)

Description. with photographs, of portable two speed heavy duty Blow Knox Concrete Pump. Capacity, 15/20 cu. yards per hour. Range up to 1,000 ft. horizontally or 100 ft. vertically.

16.52 materials: miscellaneous REINFORCED BRICK BEAMS

MALITORCED BRICK BEAMS

Danish Mass-production of Prestressed Steel-reinforced Brick Units. (Building Digest, June, 1949. p. 205.)

Illustrated note on development of shallow reinforced brick beams or " planks."

These are manufactured out of brick-like blocks, 2½ in. deep containing channels in the upper part. These are laid end to end and prestressed reinforcing wires are grouted in the channels. Various lengths and widths are possible. "Planks" are used as lintols, permanent shuttering for concrete floors, etc., and as roof units.

17.62 construction: general BUILDING ENCYCLOPEDIA

The Building Encyclopedia. Third revised and enlarged edition in 4 volumes. (The

and enlarged edition in 4 volumes. (The Waverley Book Company, Ltd., London, 1949. £7.)

A handbook of modern building practice for the working builder.

The Building Encyclopedia aims at presenting to the working builder a comprehensive but concise account of and guide to all his general activities.

HOPE'S Steel DOOR FRAMES now being supplied to:



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The great demand for this type of publica-tion is demonstrated by the fact that the Encyclopedia appears now in its third edi-tion, the second war-time edition having non, the second war-time edition having gone rapidly out of print. The third edition, which has been thoroughly revised and en-larged, comprises over 1,576 pages with over 3,700 illustrations. The list of contributors contains 67 names.

The standard of the contributions is not at an even level. Some of the articles, mainly those relating to legal questions (by the late W. T. Creswell) and to traditional building materials and methods are very well written. whereas materials of more recent origin, such as steel and concrete, have not been treated as steel and concrete, have not been treated in an adequate manner. More recent developments, like prestressed concrete, are ignored, and welding, although described in a short contribution, is not shown in any practical application. The rigidity of welded joints is enumerated among the "disadvan-tages" of welding. The short article on light-weight concrete does not give a proper risture of the manifold applications of this picture of the manifold applications of this material and does not contain any cross reference to foamed slag concrete. The arrangement of reinforcement as shown in Fig. 17 on p. 335 and Fig. 35 on p. 680 is bad practice which cannot be excused by the fact that it is frequently adopted. Some of the theoretical articles are rather

confusing. While on p. 1,346 it is correctly stated that " strain is measured by the ratio sated that strain is measured by the ratio of the augmentation of length to the original length" (*i.e.*, in. per in.), on p. 1,353 a numerical example is worked out in which the term "strain" is used for "increase in length," *i.e.*, measured in in. On p. 336 the working stress of the reinforcement is referred to as "tensile strength of the steel." referred to as "tensile strength of the steel." All examples are based on a working stress in the steel of 16,000 lb./sq in. (p. 334-336) although the LCC By-Laws 1937 (p. 993G) allow 18,000 lb./sq. in. In the article headed "frame or truss" a rigid frame is described as an "incomplete" frame because "the frame would tend to collapse under on un frame would tend to collapse under any unrane would tend to contapse under any un-usual system of loading." It is strange to read about a certain type of precast concrete floor that its cost "may be generally con-sidered prohibitive except where virtually necessary in big work."

Inaccuracies are not confined to "modern" materials, e.g., Durham Cathedral is quoted as characteristic of the Early English style (p. 68)

Similar examples could be quoted in abun-dance. The principle that "proprietary articles are not mentioned by name in the text" is often unnecessarily violated. Altext" is often unnecessarily violated. Al-though the Encyclopedia is addressed to the craftsman and not to the specialist and designed for general reference only, not for advanced information, precision in the text is a fundamental requirement.

It is a pity that this comprehensive work, containing a vast amount of useful informacontaining a vast amount of userul informa-tion and many excellent illustrations, is marred by a number of misleading and in-accurate articles and that it lags far behind technical development.

20.141 construction : complete structures HYPERBOLIC-PARABOLOID CONCRETE ROOFS

Hyperbolic-Paraboloid Concrete Roofs in Czechoslovakia. K. Hruban. (Concrete and Constructional Eng., Aug., 1949, pp. 247-251.)

Reinforced concrete hyperbolic-paraboloid thin-slab vault roofs.

In the past five years more than 400,000 sq. ft. of factory floors in Czechoslovakia have been covered by reinforced concrete hyperbolic-paraboloid thin-slab vault roofs. The thickness of the curved slab does not exceed 24 in.

The article describes a building of 197 ft. width and 900 ft, length divided into three bays of 67 ft. 8 in. The columns are at intervals of 16 ft. 5 in., and the interior columns support reinforced concrete beams columns support reinforced concrete beams carrying crane rails. The total weight of high-tensile steel is 3-65 lb. per sq. ft. of floor area. The roof comprises a number of shallow troughed elements spanning each bay as parabolic arches. The middle surface of each element is a part of the surface of a hyperbolic paraboloid, with the crown at the middle of the span and the axis vertical. The springing lines of the troughed elements are parabolic curves concave up-wards. The horizontal reactions are resisted wards. The horizontal reactions are resisted by reinforced concrete ties, supported by hangars, at the eaves. On the extrados, the edges of adjacent elements are thickened to form arched ribs. The sofit of the roof is a series of curved surfaces unbroken by ribs, but the ties and hangars project below the roof. The shuttering for the sofit is more complicated than that required for a

Reinforcement in slabs and ribs of hyperbolic-paraboloid concrete roofs. See 20.141.

cylindrical vault. Roof lights are provided between the elements, and asphalt cork slabs are laid on the slab to provide thermal insulation; the cork slabs are later covered with waterproof paper. The build-ing is divided by transverse expansion joints into nine parts each about 100 ft. long, and the joints extend through the roof and columns.

The article also describes north light roofs composed of precast hyperbolic-paraboloid elements of 1[‡] in. thickness.

20.142 construction : complete structures PRESTRESSED CONCRETE

TECHNICAL SECTION

The Variety of Applications of Prestressed Concrete. M. Lalande. Translated from the French and issued as No. 7 of the CACA Library. (Cement and Concrete Association.)

Description of applications of the Freyssinet system already referred to in Inf. Centre. (See 20.119:14.4.49.) Now available in English.

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

OUESTIONS AND ANSWERS

3000 RIGHT OF LIGHT

A client of mine, who has a chemist's O shop which is one of a terrace built about thirteen years ago, built an addition about thirteen years ago, built an addition to his living accommodation on the ground floor only some three years ago. A few months back he had plans prepared, sub-mitted to the local Council, and approved, for a further addition on the first floor above the original extension.

Before starting work he received an objection from his neighbour that the proposed addition would block the light to his windows on the ground and first floors, and he was threatened with legal action if he proceeded with his proposals. He ap-proached a solicitor and could get no definite advice, save that it would be best to get the written agreement of his neighbour to the proposals. This, of course, is impossible.

I presume that the neighbour is claiming ancient lights for his windows, but believe that the windows must have had twenty-one years' uninterrupted light before this can be claimed. As the property has been built only thirteen years, I maintain that my client will be in order to proceed with the work, despite his neighbour's threats. Is this so?

A It takes twenty years' uninterrupted enjoyment of light to a window in order to acquire a right to light, and as it is stated that the neighbour's windows have only been in existence thirteen years, they have not, therefore, acquired any rights of light. The proposed extension of the chemist's premises could not be prevented on this ground.

It is stated that the houses are terrace houses, and it would be advisable to examine the deeds of the property so as to be certain that there are no restrictions which would prevent the proposed extension. This would be quite apart from the position under rights of lights.





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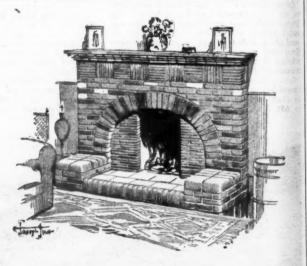


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THE INDUSTRY

By Brian Grant

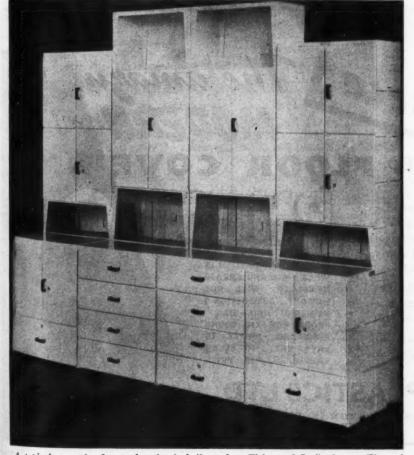
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SOCKETS FOR RING MAINS Reference has been made from time to time in these notes to the post-war method of wiring with a ring main circuit feeding a series of 13 amp. (3 kilowatt) sockets, all of which must be fitted with fused plugs. The appropriate B.S.S. (No. 1363/ 1947) relates solely to a fused plug and sunk-type socket for mounting, in the appropriate iron or steel box, in a main wired in conduit. A demand has arisen, however, for variations of the basic socket, and, to supply the needs of architects and wiring contractors who want something wiring contractors who want something different, Sanders of Wednesbury have in-troduced a surface socket and also a switched version for the sunk mounting type (B.S.S. 1363 is for sockets which are not switched) both of which are for use with the fused plug demanded in the specification. The switch is of the slow make-and-break type suitable only for A.C. supplies, and can be accommodated in the standard (BS 1290 or 1361) curk Make-and-break type suitable only for A.C. supplies, and can be accommodated in the standard (B.S. 1299 or 1361) sunk box. The surface socket is, of course, primarily intended for old installations which are to be re-wired with a ring main circuit.

Both these developments seem logical enough, and it is conceivable that B.S. 1363 may be revised to allow for sundry variations of this kind; at the moment,



A typical example of a cupboard unit built up from Fisher and Ludlow's new Flowstyle steel equipment.



A socket with switch for ring mains, made by Sanders of Wednesbury.

however, these sockets can only be described as complying to the specification so far as it is applicable. (Sanders & Co. (Wednesbury), Ltd., (William Falcon Electrical Works, Wednesbury, Staffs.)

UNIT FURNITURE

The illustration on this page shows a typical example of the sort of unit which can be built up from Fisher and Ludlow's new Flowstyle steel equipment. A great variety of desks, tables, cabinets,

cupboards, lockers, shelving units, bookcupocarus, lockers, shelving units, book-cases, shop counters, display cabinets, chests of drawers, stools and so on can be rapidly assembled from multiples of a simple shelf unit with the addition of special components according to the pur-nose of the furniture. pose of the furniture.

For example, stacks of shelves fitted with glass panels and glass doors make up into a series of display cabinets for high class store fitting. Libraries are offered open shelves, together with glass doors with locks for special sections, with the opportunity of using drawers or cupboards in any sec-tions required. Counter assemblies with doors, drawers and glass or metal panels can be arranged with knee-hole spacings permitting assistants to eit. There is a permitting assistants to sit. There is a range of work tops for counters of any length, and these are obtainable in stove enamel finish or covered with linoleum, plastic, glass or other suitable materials. There are tops in similar finishes for desks and tables. There are sets of drawers supplied complete with runners and ties for supplied complete with runners and ties for easy assembly within a shelf unit. These and other components, such as leg units for tables or single pedestal desks, make a versatile set of furniture units and further

components are being developed. Practically every requirement for office furniture is covered, and the system allows combinations of files, books, etc., in com-plete assemblies instead of scattered units. For schools, the addition of special drawers For schools, the addition of special drawers (four per set) meets the requirements for individual storage for each pupil, and as all items are interchangeable it is possible to introduce a wide range of different colours so that the youngest pupils can identify their own.

The units are constructed from high-grade steel sheet, and components are bonderized before painting to ensure a rustproof finish and are stove-enamelled in a wide choice of colours

As all the interlocking units are fixed to-gether by means of insert clips, every assembly becomes a firm structure which can be moved, if required, en bloc. (Fisher & Ludlow Ltd., Bordesley Works, Binningtorn 12) Birmingham, 12.)

TECHNICAL SECTION [267

This regular feature, prepared by Davis, Belfield and Everest, Chartered PRICES Quantity Surveyors, summarises basic prices for materials and gives labour rates for the London District and Grade Classifications outside

London. Detail prices of materials are given quarterly.

DASIC MATERIALS	BASIC PRICES AND RATES OF WAGES, 1949					
BASIC MATERIALS	Mar.	Apr.	May	June	July	Aug.
Portland cement (6 tons and over) per ton Paper bags " 2-in. unscreened ballast per yd. cu. Fletton bricks	60/6 11/- 14/5 85/- 421% 189/- £17 16s. 6d. £142 10s. 70% 48/3	$\begin{array}{c} 60/6 \\ 11/- \\ 14/5 \\ 85/- \\ 42\frac{1}{2}\% \\ 189/- \\ \pounds 20 \ 3s. \ 6d. \\ \pounds 124 \ 10s. \\ 71\frac{1}{2}\% \\ 46/3 \end{array}$	$\begin{array}{c} 60/6 \\ 11/- \\ 14/5 \\ 85/- \\ 42\frac{1}{2} \circ_{0} \\ 189/- \\ \pounds 20 3.5 \\ 6d. \\ 89/6 \\ \pounds 112 5s. \\ 71\frac{1}{2} \circ_{0} \\ 43/6 \end{array}$	60/6 11/- 14/5 85/- 421% 189/- £20 3s. 6d. 89/6 £99 721% 41/6	$\begin{array}{c} 60/6 \\ 11/- \\ 14/5 \\ 85/- \\ 42\frac{1}{2} \% \\ 189/- \\ \pounds 20 \\ 35. 6d. \\ 89/6 \\ \pounds 99 \\ 72\frac{1}{2} \% \\ 41/6 \end{array}$	60/6 11/- 15/5 85/- 42½% 189/- £203.6d. 89/6 £104 15s. 72½% 43/6
RATES OF WAGES (LONDON)— Within 12 miles radius Craftsmen per hour Labourers	2/11 <u>1</u> 2/4 <u>2</u> 2/11 2/4	2/11 2/4 2/11 2/4	2/11 2/4 2/11 2/11 2/4	2/111 2/41 2/11 2/4	$ 2/11\frac{1}{4} 2/4\frac{1}{2} 2/11 2/4 2/11 2/4 $	2/114 2/41 2/11 2/4

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Prices of materials above include for delivery to site in the Central London Area, and the rates of wages are for London only. Current rates of wages outside London are as follows : Liverpool and District, Craftsmen, 2/114 :

abourers, 2/41.							
RADE CLAS	SIFICA	ATIONS	A	A1	A ^s	A ³	
Craftsmen			 2/10	2/91	2/9	2/81	
Labourers			 2/31	2/3	2/21	2/8½ 2/2	

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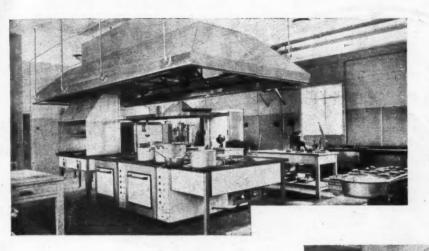
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(a) On suspended old wooden floor. (b) On suspended old concrete floor, un-screeded.

(a) On filler joist concrete floor, screeded, (b) On suspended old wooden

floor. (c) On old concrete floors -ground level.

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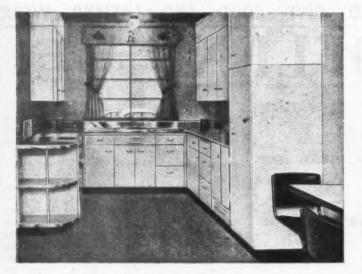
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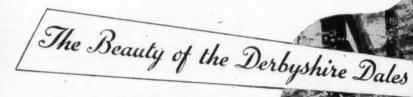


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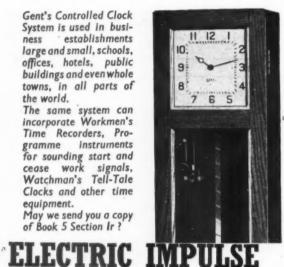
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accompanied by a small sample of the applicant's work. The appointment will be subject to the pro-visions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination. Applications, stating age, qualifications and ex-perience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hail, Kingston-on-Thames, not later than the 17th Sep-tember, 1949. Canvassing, either directly or indirectly, will disqualify a candidate from consideration. DULEY AUKLAND, Clerk of the Council. County Hall,

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Secretary.

J. A. JOHNSTON, Secretary. 200 CUMBERLAND COUNTY COUNCIL Applications are invited for the following appointments on the permanent establishment of the Architect's Department: (a) SENIOR ASSISTANT ARCHITECT-Grade VIII, A.P.T. Division (£685-£710 pa.). (b) SENIOR ASSISTANT ARCHITECT-Grade VIII, A.P.T. Division (£685-£710 pa.). (c) ARCHITECTURAL ASSISTANT-Grade VIII, A.P.T. Division (£685-£710 pa.). (c) ARCHITECTURAL ASSISTANT-Grade UII, A.P.T. Division (£480-£495 pa.). (d) JUNIOR ARCHITECTURAL ASSISTANT-Grade III, A.P.T. Division (£480-£495 pa.). Applications for posts (a) and (b) are required to be Associate Members of the R.I.B.A. and capable of a high standard of design. Preference will be given to those candidates who have bad experience in the control of staff. Applicants for post (c) should have passed, or be presenting.

Final Examination. Applicants for post (d) should have passed, or be preparing to take the R.I.B.A. Intermediate Examination. The appointments will be terminable by one month's notice on either side, and will be mu-ject to the provisions of the Local Government Superannation Act, 1937, and to the passing of a Medical Examination. Applications, on forms obtainable from John E. Haughan, F.E.I.B.A., County Architect, 15. Port-land Square, Carlisle, should be delivered to him not later than Monday, 1981. September, 1946, together with copies of not more than three recent testimonials.

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

August, 1949.

Clerk of the County Council 2011 COUNTY BOROUGH OF BRIGHTON. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF CHIEF CLERK OF WORKS. Applications are invited for the appointment of Chief Clerk of Works, salary to be in accordance with Grade A.P.T., Division V (£520-£570), plus car allowance. Applicants must have had a sound practical training and possess an extensive knowledge of all building trades and be competent to supe-vise the erection of large scale housing contracts and other public buildings. Experience in Direct Labour Building Schemes would be an advantage. The appointment is an established post on the permanent staff and is subject to the provisions of the Local Government Superannuation Act, 137. The appointment will be terminated by one month's notice on either side, and the successful applicant will be required to pass a medical examination.

Application. Application. Applications stating age, qualifications and er-perience, and the names and addresses of three persons to whom reference may be made, musi-te sent to the Borough Engineer and Surreyer, D. J. Howe, Esq., M.I.C.E., M.I.Mun.E., 26/3. King's Road, Brighton, not later than Monday. 19th September, 1949. BRECONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following per-manent appointments (Male or Female) in the County Architect's Department. (a) ONE ASSISTANT ARCHITECT. Grade V. E520-E570 per annum.

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1 Priory Place, Doncaster.

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Glangwili, Carmarthen.

A. W. YOUNGS, Secretary.

COUNTY BOROUGH OF WOLVERHAMPTON. BOROUGH ENGINEER'S DEPARTMENT. Applications are invited for the following sppontments in the Town Planning Section of the

etamination, and to one month a nonce of the side. The Council cannot undertake to provide housing accommodation, but successful applicants may, if married, qualify for a subsistence allowance will they are able to find accommodation. Applications, with not more than 3 testimonials or names for reference, should reach the undertake of the undertake should state clearly for which appointment they are applying. J. BROCK ALLON.

J. BROCK ALLON. Town Clerk.

2023

Town Hall, Wolverhampton. 24th August, 1949.

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COUNTY BOROUGH OF GREAT YARMOUTH. BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF TWO SENIOR ASSISTANT ACHITECTS Applications are invited for the appointment of two senior Assistant Architects for :-(1) Housing and General Work. (2) Schools. The salaries will be in accordance with A.F.T., Grade VI (2595-E660 per annum) of the National Conditions of Service. Treference will be given to Associates of the Royal Insitute of British Architects and, in the case of appointment 2, to applicants who have had previous experience in modern school design. Applicants need not have had previous Local Government experience. The appointment 2, to applicants who have had previous experience destructures of the provisions of the Local Government Super-annuation Act, 1397, and to the passing of a month's notice on either side, and will be subject to the provisions of the Local Government Super-annuation Act, 1397, and to the passing of a month's notice on either side, and will be subject to more ference. Can be made, should be archited thousing " or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing or "Senior Assistant Archited Housing or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing" or "Senior Assistant Archited Housing or "Senior Assistant Archited House or House House House House House House Order House House House House Hous

Town Hall, Great Yarmouth. 24th August, 1949. COUNTY BOROUGH OF HALIFAX. BOROUGH ENGINEER'S DEPARTMENT. Applications are invited for the following appointments:-(1) CHIEF ARCHITECTURAL ASSISTANT (General). Salary in accordance with Scale VII, A.P.T. (£635-£710). (2) ARCHITECTURAL ASSISTANT (General). Salary in accordance with Scale V, A.P.T. (£520-£570).

(3) ARCHITECTURAL ASSISTANT (Schools). Salary in accordance with Scale V, A.P.T. (£520-

(a) ARCHITEGTURAL ASSISTANT (Schools).
 (b) ARCHITECTURAL ASSISTANT (Schools).
 Salary in accordance with Scale III, A.P.T. (£450-terr)

(4) ARCHITECTORAL Scale III, A.P.T. (£450-£8lary in accordance with Scale III, A.P.T. (£450-£95).
 (5) BUILDING INSPECTOR. Salary in accord-ance with 8cale I, A.P.T. (£390-£435).
 (6) CLERK OF WORKS (General). Salary £9 5e. per week.
 Candidates should possess appropriate technical medical examination. The appointments will be subject to the conditions of service adopted by the Corporation and to the Local Government Superannuation Act, 1937.
 The Corporation are negotiatink for the pur-chase of property with the object of converting it into flats, which might be made available at a later date to candidates appointed to the Archi-tectural positions.
 Applications, starg age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, appropriately endorsed, should be delivered to the undersigned not later than Saturday, 17th September, 1949.
 RICHARD DE Z. HALL. Town Clerk.

Town Hall, Halifax. Town Clerk. STAFFORDSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Appointment of :-(a) ARCHITECTURAL ASSISTANT. A.P.T., Y. (b) ARCHITECTURAL ASSISTANT. A.P.T., Y. (c) ASSISTANT BUILDING INSPECTOR. A.P.T. II. Applications are invited for the above at com-mencing salaries for appointment (a) within the range of £520-£570 per annum, and for appoint-ments (b) and (c) within the range of £420-£465 per annum, according to experience and qualifica-tion.

The appointments will be subject to the Addonated and the Addonated and the subject to the scheme of conditions of service of the National Joint Council and to the provisions of the Local Government Superanuation Act, 1937. They will be terminable by one month's notice on either suifed to submit certificate of medical fitness. Applicants for the appointment of Assistant Building Inspector should have a thorough practical knowledge of the building trade and experience as Clerk of Works or General Foreman, they should be good specification writers and able to make clear concise reports. The suife and to the required to reside in or near Stafford and to provide a car for the performance of his duties, for which travelling allowances will be required to reside in or near Stafford and to provide a car for the performance of his duties, for which travelling allowances will be required to reside in or near Stafford and to provide a car for the performance of his duties, for which travelling allowances will be required to reside in or near Stafford and to provide a car for the performance of his duties, for which travelling allowances will be required to reside in or near Stafford and to provide a car for the performance of his duties, for which travelling allowances will be applications, stating clearly which appointment is applied for, and giving full details of experience and qualifications, age, etc., together with three recent testimonials, should be delivered to the County Architect, Martin Street, Stafford, not later than Starday, the 24th September, 1949. Applicants must disclose whether or not they are related to any member or senior officer of the Counti.

T. H. EVANS, Clerk of the County Council. County Buildings, Stafford. 30th August, 1949.

accommodation for successful appendix quired. Forms of Application and Conditions of Employ-ment may be obtained from the City Engineer, 18, Fisher Street, Carlisle, to whom applications should be returned not later than Friday, 23rd September, 1949. H. D. A. ROBERTSON, Town Clerk. 2003

 It. D. A. ROBRITSON.
 Tour Clerk.

 15. Fisher Street, Carlisle.
 2033

 COUNTY BOROUGH OF CARLISUE.
 APPOINTMENT OF PRINCIPAL ASSISTANT

 TOWN PLANNING OFFICER (GRADE A.P.T., VII).
 Applications are invited for the above appointment on the permanent Staff of the City Engineer and Surveyor and Planning Officer, at a consolidated salary of £255, rising by annual increments of £25 to £710 per annum.

 Applications should be Corporate Members by examination of the Town Planning Institute and/or the Institutions of Civil or Municipal Engineers or the Royal Institute of British Architects, and should have had previous Town Planning experi

should have had previous form a summer will, ence. It is considered likely that the Council will, if required to do so, provide the successful appli-cant with a modern house. Application Forms may be obtained from the City Engineer, 18, Fisher Street, Carlisle, and completed forms should be returned to me not later than Monday, 19th September, 1949.

 later than Monday, 19th September, 1949.

 H. D. A. ROBERTSON, Town Clerk's Office, Fisher Street, Carlisle.

 2031

 COUNTY BOROUGH OF BARROW-IN-FURNESS.

 BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

 Applications are invited for the following per-manent appointments:-(d) SENIOR ASSISTANT ARCHITECT (Grade VII), £635-£710 p.a.

 (b) ASSISTANT ARCHITECT (Grade VI), £595-£660 p.a.

(b) ASSISTANT ARCHITECT (Grade III), (c) ASSISTANT ARCHITECT (Grade III), 2450-2495 p.a. (d) BUILDING SURVEYOR (Grade Va), 2550-

(d) BUILDING SURVEYOR (Grade Va), 2550-2510 p.a., Candidates for post (a) must be Associates of the R.I.B.A. For other posts the possession of a recognized professional qualification will be an advantage. The Conncil has accepted the principle of pro-viding housing accommodation. Further details of the posts, conditions of appointment, and forms of application may be obtained from the Borough Engineer and Sur-veyor, to whom completed applications must be returned not later than Monday, 26th September, 1949. Canvassing in any form will disqualify.

Canvassing in any form will disqualify.

THURROCK URBAN DISTRICT COUNCIL. ENGINEER & SURVEYOR'S DEPARTMENT. ARCHITECTURAL ASSISTANT (GRADE III). A vacancy occurs in the Council's Architectural Staff for an Assistant on Grade III of the A.P.T. Division of the National Scale of Salaries, viz., 2450×£15-£495 per sanum. General architectural experience is necessary, and previous success in some part or parts of the Examination leading to the qualification A.R.I.B.A. will be an advantage. The Conncil may consider housing accommoda-tion if required by the successful candidate residing more than 20 miles from Thurrock Urban District. "The appointment is subject to the provisions of

reating more than 20 miles from Thurtock Croan District. The appointment is subject to the provisions of the Local Government Superannation Act, 1937, and it will be necessary for the selected candidate to pass a medical examination. Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, endorsed "Architectural Assistant, III," should reach the undersigned not later than 1st post on Tuesday, 27th September, 1949. Canvassing will disqualify, and applicants must disclose in writing any relationship to any member or senior officer of the Council.

A. E. POOLE. Council Offices, Whitehall Lane, Grays. 25th August, 1949.

W. L. ALLEN, Town Clerk

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD. Applications are invited for the following spointments in the Architect's Department. This Department is responsible for the actual proparation and supervision of schemes for build-ing hospitals for acute sick, mentally defective and tuberculous patients, including staff housing schemes, and for extensions and adapta-tions to existing hospitals and other premises in the Region which covers the whole of Bedford-shire and large areas of Hertfordshire, Middlesex, London, Berkshire and Buckinghamshire. (1) ASSISTANT ARCHITECTS. Grade A.P.T., 74. £55 to 2650 per annum. Soven exacancies. Arabicants should be Members of the B.I.B.A. or about to take their Final examination. Good general experience in design and construction is contain.

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(ii) JUNIOE ARCHITECTURAL ASSISTANT. rade A.P.T., V, £520 to £570 per annum. One Grade

Grade A.P.T., V, £520 to £570 per annum. One vacaney. Applicants should have passed the Intermediate examination of the R.I.B.A. Good general ex-perience in design and construction, and a know-ledge of Hospital work is desirable. (ii) ASSISTANT QUANTITY SURVEYORS. Grade A.P.T., VI, £555-£660 per annum. Two vacancies, should hold as approved qualifier.

Grade A.P.T., VI, £555-£660 per annum. Two vacancies. Applicants should hold an approved qualifica-tion of the B.I.C.S., or should be about to take their Final examination. Good general experi-ence in the preparation of specifications for public buildings, ability to make structural surveys and reports, and a good working knowledge of contract procedure are easential. A knowledge of thespital work is desirable. (iv) TRAINEE General Division, £135 at age 16, rising by annual increments to £220 per annum at age 21. One vacancy. Applicants should possess School Certificate and abould have an aplitude for draughtsmanship and/or a keen interest in building, surveying, etc. The successful applicant will be expected to pursue a course of study leading to the Final qualification of an appropriate institution. London weighting £10 at age 16, £20 at age 21, and £30 at age 26 is payable in addition to the above salaries.

above salaries. Appointments, which are subject to conditions of service prescribed by the Ministry of Health for such posts, and to the National Health Service (Superannuation) Regulations, 1947/8, will be terminable by one month's notice. Applications, giving details of experience, together with names of two referees, should be addressed to the Secretary of the Board, 11a, Portland Place, W.1, not later than 24th Sep-tember, 1949. BORGINGH OF LETRON

BOROUGH OF LUTON. BOROUGH CF LUTON. BOROUGH ENGINEER'S DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applications are invited for the appointment of Architectural Assistants, in salary grades ranging between A.P.T., I (£390-£435) and A.P.T., IV (£460-£255), according to qualifications, and perience. Applicants must have made some progress in obtaining architectural qualifications, and have had Municipal experience, with par-ticular reference to housing and school works. The appointments will be subject to the Local Government Superannuation Act, 1937, to the Network Service, and to the saccessful candidates passing a medical ex-amination.

Town Hall, Luton. 27th August, 1949

2017

2017 HUNTINGDON COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. SENIOR ARCHITECT'S DEPARTMENT. GRADE VI). ARCHITECTURAL ASSISTANT (GRADE VI). ARCHITECTURAL ASSISTANT (GRADE II). TECHNECAL ASSISTANT (GRADE II). TECHNECAL ASSISTANT (GRADE IV.). Applications are invited for the appointment of (a) Senior Architectural Assistant, salary Grade VI, A.P.T., £955-£660 per annum. (b) Architectural Assistant, salary Grade VI, V., A.P.T., £400-£570 per annum. Applications for (c) should have experience in connection with schemes and specifications for Heating and Domestic Hol Water Installations, and a knowledge of Electrical Installation is desirable.

desirable.

desirable. Applications should be sent to S. J. Hands, A.B.I.B.A., County Architect, County Buildings, Huntingdon, to be received not later than first post on Monday, 36th September, 1949, and should be accompanied by two recent testimonials or the names of two persons to whom reference may be made.

The appointments are subject to the provisions of the Local Government Superannuation Act. 1937, and the successful candidates will be required to pass a medical examination. JOHN KELEY, Clerk of the County Council, Connty Buildings, Huntingdon. 2049

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P. D. EADSWORTH, Town Clerk.

The Council House, Dudley. 30th August, 1949. 2054

COUNTY BOROUGH OF BURY. CLERK OF WORKS. Applications are invited for the position of Clerk of Works for the erection of the Elfon Secondary Modern School. Salary £420 per

Candidates must have practical knowledge of all branches of the Building Trade and be ex-perienced in the supervision and erection of buildings. The appointment is subject to the Local Govern-ment Superannuation Act, 1937, and medical ex-

Ment Superannasho Applications, stating age, qualifications and ex-perience, together with names and addresses of two persons to whom reference might be made, must be forwarded to me not later than the 24th September, 1949. EDWARD S. SMITH.

EDWARD S. SMITH. Town Clerk.

Municipal Offices, Bank Street, Bury. 31st August, 1949. 2045

Aminipal optications, bank Spice, Bary. 3ist August, 1949. Applications are invited for the following posts in the County Architect's Department .-Two Permanent PRINCIPAL ARCHITECTURAL ASSISTANTRS, at a salary in accordance with Grade VIII (i.e., £685 per annum, rising by annual increments of £25 to a maximum of £760 per annum), of the Administrative, Professional and Technical Division of the National Joint Consideration will be given to the payment of a temporary lodging allowance to selected candi-dates, who are maintaining a home elsewhere, and conditions of service, can be obtained from the undersigned. Applications, particulars of the post, and conditions of service, can be obtained from the undersigned. Applications, together with copies of three recent testimonials, must be forwarded to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than the 17th September, 1949. Canvassing in any form will be a disqualificant

tion.

VERNON LAWRENCE, Clerk of the Council. County Hall, Newport, Mon. 2051

County Hall, Newport, Mon. 2051 ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART. FOREST ROAD. WALTHAMSTOW, E.17. Required immediately, part-time day STUDIO MASTERS IN ARCHITECTURAL DESIGN. in the Department of Architecture and Building of the College. for work in connection with the full-time day courses for the examinations of the Royal Institute of British Architects. The times of instruction can be arranged to suit applicants. Applications (no forma), giving full particulars of qualifications, training and experience, should be sent to the Clerk to the Governors at the College.

College

County Offices, Chelmsford 2060

BRIERLEY HILL URBAN DISTRICT COUNCIL. APPOINTMENT OF SECOND ASSISTANT ARCHITECT. Applications are invited from suitably qualified persons for the appointment of Second Assistant Architect, in the Architect and Housing Director's Department, at a salary in accordance with Grade VA of the A.P.T. Division (£550-× £20 to £610 per annum) of the National Scales of Salaries.

220 to 2610 per annum) of the National Scales of Salaries, should be experienced in general Municipal work, including housing, be capable of preparing plans and specifications, etc., and supervising construction. "Second Assistant Architect," stating age, full details of qualifica-tions and experience, and accompanied by copies of not more than three recent testimonials, must reach the undersigned not later than Monday, 19th September, 1949. HERBERT HEX.

HERBERT HEX. Clerk of the Council. Council Offices, Moor Street, Brierley Hill. 30th August, 1949. 2034

COUNTY OF LINCOLN-PARTS OF LINDSEY. COUNTY ARCHITECTS DEPARTMENT. In view of the large building programme, the following Senior Architects are required, the two SENIOR ARCHITECTS. Grade VII,

263 635-£710 per annum. ONE SENIOR ARCHITECT. Grade V, £520. 4.5

570 per annum. TWO SENIOR ARCHITECTS. Grade IV, £480.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln, of 25s. per week for six months, plas Lincola, and 25s. per week for six months, plas inthe

months. Applicants need not have had previous Local Government experience, but preference will be given to Associates of the R.I.B.A. Applications, stating age, experience, gualifica-tions, and accompanied by two recent testimonials, should be sent to the undersigned not later than the 17th September, 1949. A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I., County Archited

F.P.I., County Architect, 2066

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County Offices, Lincoln

County Offices, Lincoln. 200 COUNTY OF LINCOLN-PARTS OF LINDSEY. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF CLERK OF WORKS. Applications are invited for the appointment of Clerk of Works on the Temporary Staff, to super-vise the cretchon of new Schools at Scunthorpe. The salary will be £9 9s. per week for a period of not less than 18 months. At the cam-pletion of the job the person appointed may be given the opportunity to transfer to further build-ing schemes which may then be commencing, subject to satisfactory service and to the Conncil's approval.

given the satisfactory service and subject to satisfactory service and Council's approval. The successful applicant would be required to take up his duties as soon as possible and to reside in or near Scunthorpe. Applications, stating age and experience, together with copies of testimonials or names for reference, to be sent to the undersigned not later than the 17th September, 1949. A. RONALD CLARK, A.B.I.B.A. A.M.T.P.I., County Architect. 2866

County Offices, Lincoln.

COUNTY BOROUGH OF BLACKBURN. Applications are invited for the following ARCHITECTURAL ASSISTANTS on the per-manent staff of the Borough Engineer.— One. Grade VI (£555-£560) or VII (£635-£710). according to experience and qualifications. One, Grade VI, £552-£570. One, Grade VI, £552-£570. One, Grade II, £450-£495. One, Grade II, £450-£495. One, Grade II, £450-£495. Applicants for the Grade VI or VII posts musi be Registered Architects, and have good experi-ence in the design and construction of schools. Preference will be given to Associates of the B.I.B.A. ence in the Preference R.I.B.A.

Preference will be given to Associates of the R.I.B.A. Applicants for the Grade V post must be Registered Architects and have good general ex-perience in the design and construction of Muni-cipal buildings and housing. Applicants for Grades II and III posts must have good experience in an Architectural office, and preference will be given to those who have passed the R.I.B.A. Intermediate Examination or its equivalent. Applications, endorsed "Staff Appointments," stating age, qualifications, experience, present and past appointments, together with copies of recent testimonials, should be submitted to the Borough Engineer and Surveyor, Town Hall. Blackburn, not later than 15th September. CHAS. S. ROBINSON, Town Cierk.

Competitions 6 lines or under, 198.; eack additional line, 18. 64. PUBLIC HALL AND RESTAURANT, WHITEHAVEN. The Whitehaven Corporation invite Architects resident in this country to submit designs in competition for the Public Hall and Restauram which they propose to erect in Whitehaven. Assessor, Mr. Harold A. Dod, M.A., F.B.I.B.A. Premiums, 2300, 2500, and 2175. Last day for submitting designs, 15th March. 1960.

1960. Conditions may be obtained on application to the Town Clerk, Town Hall, Whitehaven, Cum-berland. Deposit £2. Town Hall, Whitehaven. 20th August, 1949. 1950

2014 August, 1949. 2014 August, 1949. UNIVERSITY OF NOTTINGHAM. ARCHITECTURAL COMPETITION FOR A HALL OF RESIDENCE. The Council of the University of Nottingham invite Architects practising in the United Kingdom to submit designs in competition for a proposed Hall of Residence for 150 some students, to be situated on the Lenton Fields Estate, adjoining Beeston 'Lane. Nottingham, and for the layout of that Estate. On the nomination of the Rayout of that Estate. On the nomination of the Rayout of that Estate. On the nomination of the Rayout of that Estate. On the nomination of the Rayout of that Estate. On the nomination of the Rayout of that Estate. On the nomination of the Rayout of that Estate. On the nomination the Desting Architect of British Architects, the Connell of the University have appointed Sir Assessor. Premiums of £1,000, £750 and £500 will be paid to the authors of the designs placed is, 2nd and 3rd respectively. A schedule of Conditions and particulars of the

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T In site may be obtained on application to the Begistrar, the University, Nottingham, on pay-ment of a deposit of two guineas, which will be refunded on receipt of a bena jick design or upon return of the Competition documents. The closing date for applications for Conditions will be Tuesday, 1st November, 1949. The closing date for the Competition will be Saturday, 11th March, 1950. 2042

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

A BCHITECTURAL ASSISTANTS required mediately for interesting and varied work schools, Hospitals, University Buildings, Housing, etc.; selary dependent on experience and guilfcations. Apply personally by telephone or in writing. Pite Son & Fairweather. Chartered Architects, 6, Queen Anne's Gate, Westminster, EW.1. Whitehall \$576.

A BCHITEOTS' ASSISTANTS required in the A Architects' Dept., F. W. Woolworth & Co., Lie, Head Office, 1-5, New Bond Street, London, W.I. Applicante should write in giving full details of training, qualifications, experience, and makary required, to H. Winbourne, F.R.I.B.A., Architect. 1879

1379 TWO Qualified ABCHITECTURAL ASSIS-TANTS required with experience of design and working drawings, in private office, London West Central area; salaries £500 and £700. Apply, giving particulars of experience, to Box 136.

A BOHITECTUBAL ASSISTANT required for A work in connection with Rural Housing, Reclesiastical, Industrial and General Private practice. Applicants should write, stating ex-prience, age and salary required, D. C. Denton-maith, L.E.I.B.A., 40, Regent Street, Cambridge.

WEST RIDING Architects require ASSIS-dustrial, hospital and housing work; excellent prospects for reliable man. Box 1947.

A BCHITECT'S ASSISTANT of Intermediate Standard or higher, required for Archi-iset's Dept. of a Multiple Firm with offices in Bimingham. Applicants should have a sound inowledge of Construction and Surveying and about be able to produce Working Drawings details under supervision. Salary in accordance with experience and qualifications, etc. Apply in first instance to Box 1948, enclosing copies of recent testimonials.

SENICE ARCHITECTURAL ASSISTANT re-quired for appointment to staff of Develop-ment and Research Department. Applicants must hold Associateship of R.I.B.A. and be in-terested and experienced in industrial construc-tion. Applications in writing, stating age, ex-perience and salary required, to Chief Staff Architect, llford Limited, Romford, Essex. 1980

REQUIRED in Croydon Architects' Office, Two JUNIOR ASSISTANTS of first and second year standard and Two ASSISTANTS of intermediate standard. Salary according to ability. Box 1984.

ability. Box 1984. **EXPERIENCED** ARCHITECTURAL ASSIS-TANT (male or female) required by Canadian firm of Architects. Applicants should be 30-40 years of age, and should be capable of proparing rough sketches, details, and all neces-sary drawings and instructions to commence and complete a job. Commencing salary \$300 (276) per month. The post offers advancement to per-son of intelligence and accurate work. Help will be given in paying passage and expediting journey to Canada, and applicant should be pre-pared to commence by end of September. Appli-cations should be addressed to Box 1985.

SENIOR and JUNIOR ASSISTANTS required for varied London practice. Kenchington & Farms, F., A. & A.R.I.B.A. Welbeck 6543. 2002

REQUIRED in West End Architects Office, two JUNIOR ASSISTANTS of first and second year standard and Two ASSISTANTS of intermediate standard. Salary according to ability. Box 1983.

A RCHITECTURAL DRAUGHTSMAN for dis-play and exhibition. Inter B.I.B.A. standard. Capable of producing accurate working details and coloured perspectives. Write, stating age, experience and salary required, to Charles Kenrick, Limited, 15, Berners Street, W.I. 1995

ACCINENT MARKET, 10, BETHERS STREET, W.I. 1995 BCHITECTURAL ASSISTANT required; good draughtaman; some office experience pre-ferred. Apply, stating age, experience and salary required, to Farmer & Bark, Chartered Archi-tects, Terminal House, Grosvenor Gardens, London, S.W.1. 2008

SENIOE ASSISTANT ARCHITECT, A.R.I.B.A. standard, required in busy Lon-don office; able to take complete charge of jobs from first stage; also Junior Assistant up to in-termediate standard. Write, with particulars of experience, age, qualifications and salary re-quired, to E. Bates and Wm. G. Sinning, 89, Chancery Lane, W.C.2. 2009

A BCHITECTS. SENIOE ASSISTANTS re-quired. Should have good knowledge of commercial and industrial buildings and contem-porary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.S. Envelopes to be endorsed "Architect." 2025

QUANTITY SURVEYORS. SENIOR ASSIS-TANTS required. Preferably with pre-war experience in Scheduling; probable cossing; measuring and agreeing Final Measurements. Apply in writing to 8.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.S. Envelopes to be endorsed "Surveyor." 2026

A BCHITECTURAL ASSISTANT required; must have passed Intermediate examina-tion; good draughtsman, ability to prepare detail and working drawings; good prospects. Reply, with full particulars and salary required, to G. H. Herring, 21, Milton Road, Harpenden, Herts. 2043

A RCHITECTURAL ASSISTANT required for working drawings and job supervision. Apply in writing, giving particulars of training, experience, and salary required, Drake and Lasdun, 29, Sackville Street, W.1. 2040

JUNIOR ASSISTANT required for general practice; working drawings, details, write reports and specifications, etc. Full particulars to F. E. Wilkins, L.B.L.B.A., "Prudhoe House," 808, High Road, Tottenham, N.17. 2030

WANTED, immediately, SENIOR and JUNIOR ARCHITECTURAL ASSIS TANTS, salaries according to ability and experi-ence. Write or 'phone Jennings, Homer & Lynch, 3 and 5, Church Street, Brierley Hill. 'Phone Brierley Hill 7545/6. 2027

QUANTITY SURVEYING ASSISTANT (Worker-up) required immediately for busy practice. Write or 'phone Jennings, Homer & Lynch, 3 and 5. Church Street, Brierley Hill. 'Phone Brierley Hill 7545/6. 2028

A BCHITECTURAL ASSISTANTS required at Hammersmith office; housing and general design work; salaries ranging from £400 to £500 per annum, according to experience and quali-fications. Write, giving detailed particulars, to George Wimpey & Co., Ltd., Hammersmith Grove, London, W.6. 2039

SENIOR ARCHITECTUBAL ASSISTANTS re-quired. Apply in writing, stating age, ex-perience and salary required, Lucas, Roberts & Brown, Architects and Surveyors, Barnfield Hill, Exeter. 2007

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

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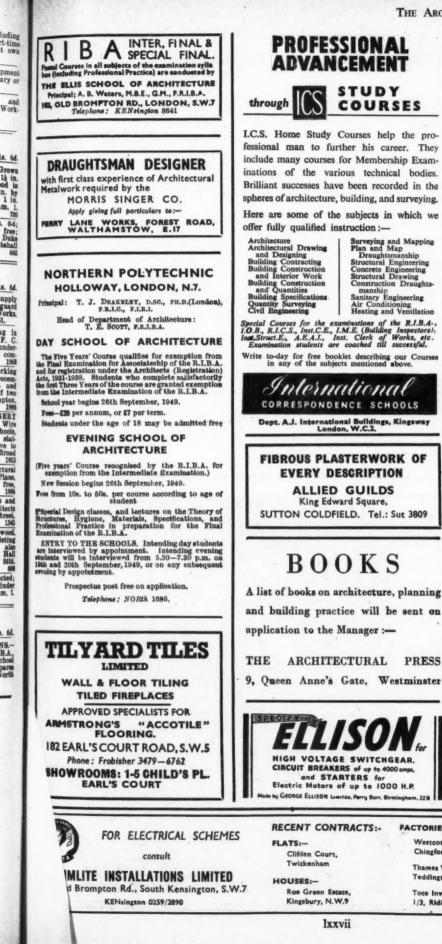
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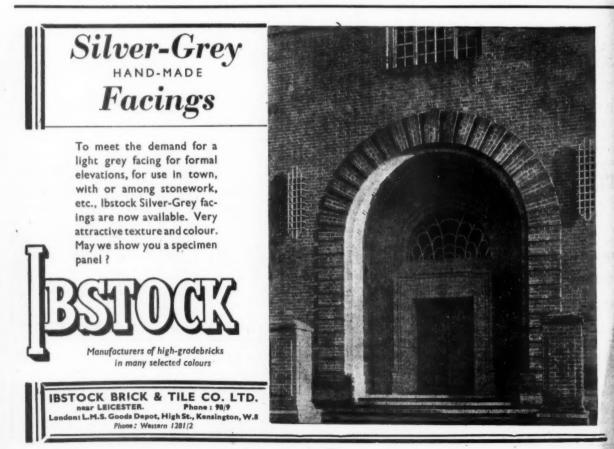
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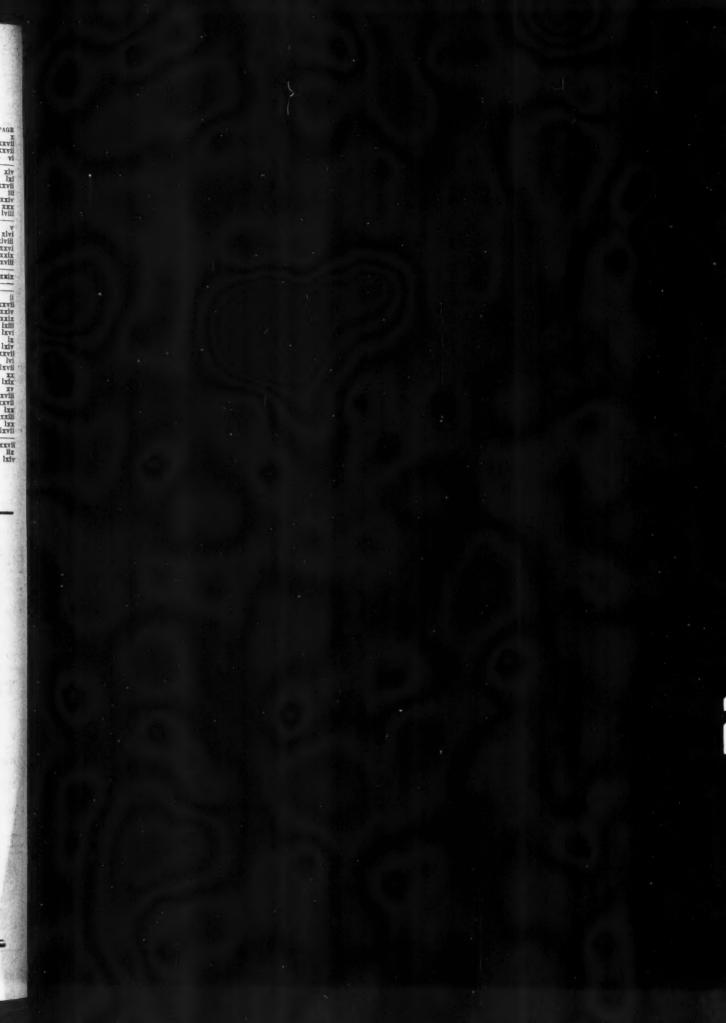
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