HE

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

NEWS and COMMENT

Diary News Architects' Commonplace Book Astragal's Notes and Topics Letters Societies and Institutions TECHNICAL SECTIOJ

Information Sheets Information Centre Current Technique Questions and Answers Prices The Industry

PHYSICAL PLANNING SUPPLEMENT CURRENT BUILDINGS

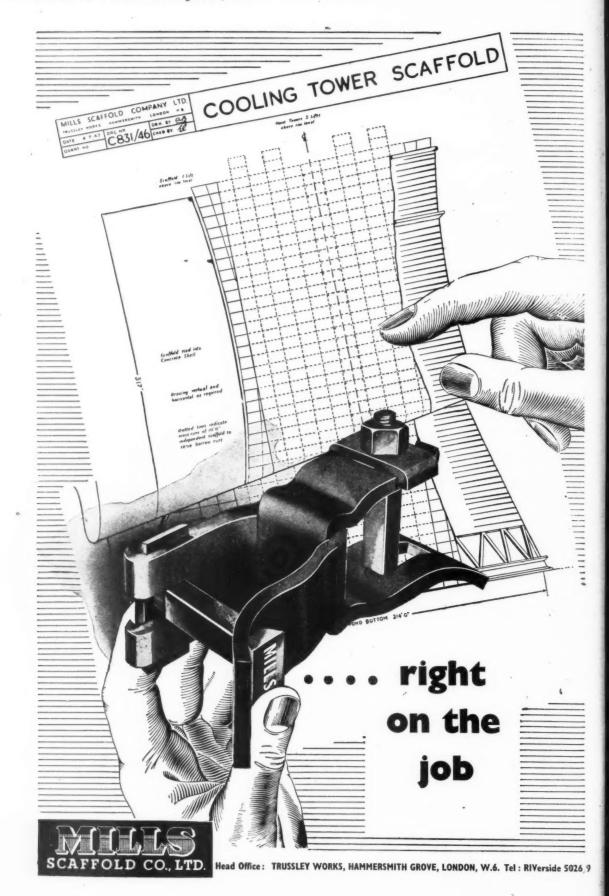
HOUSING STATISTICS

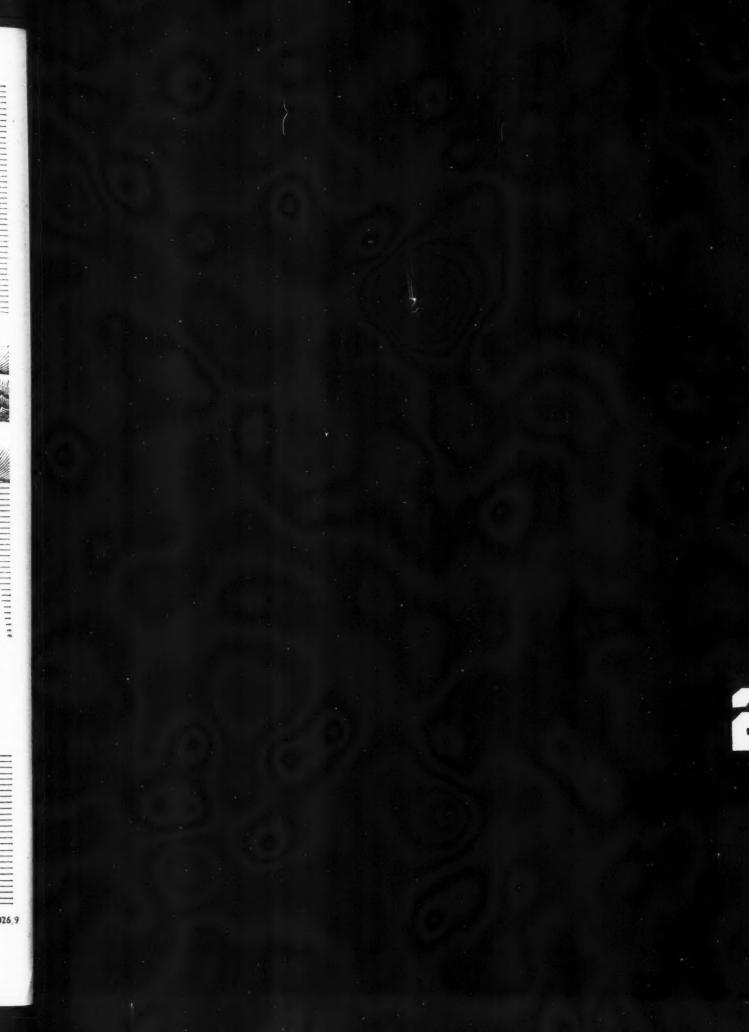
Architectural Appointments Wand and Vacant

No. 2794] [Vol. 108 THE ARCHITECTURAL PRESS 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. 'Phone: Whitehall 0611 Price 9d.

Registered as a Newspaper

		The Architects' JOURNAL for August 26, 1948						
	R	CHITECTS						
	J	OUR NDEADITL						
1	A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is pub- lished in two parts—A to Ic one week, le to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.							
	AA	Architectural Association, 34/6, Bedford Square, W.C.1. Museum 0974						
s	ABS ABT	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts. Architects' Benevolent Society. 66, Portland Place, W.1. Welbeck 5721 Association of Building Technicians. 5, Ashley Place, S.W.1. Victoria 0447-8 Arts Council of Great Britain. 4, St. James' Square, S.W.1. Whitehall 9737 Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 7501/8 Association for Planning and Regional Reconstruction. 34, Gordon						
•	ArchSA ARCUK ASB	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15. Ardwick 3480 Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738 Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1. Welbeck 5721						
T	AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1. Grosvenor 4761						
-	BAE BATC	Board of Architectural Education. 66, Portland Place, W.1. Welbeck 5721 Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706						
	BC BCCF BCIRA BDA BEDA BGC BGF BIA	Building Centre. 9, Conduit Street, W.1. Mayfair 8641/6 British Colour Council. 28, Sackville Street, W.1. Regent 3613 British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. Perivale 6869 British Cast Iron Research Association. Alvechurch, Birmingham. Redditch 716 British Door Association. 25, Victoria Street, S.W.1. Abbey 5422-3 British Gas Council. 1, Grosvenor Place, S.W.1. Sloane 4554 British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. Sloane 8266						
v	BIAE BID BINC BOT BRS BSA BSI BTE CAS	Glasgow Central 2891British Institute of Adult Education.29, Tavistock Square, W.C.1.Euston 5385Building Industries Distributors.52, High Holborn, W.C.1.Chancery 7772Building Industries National Council.11, Weymouth Street, W.1.Langham 2785Board of Trade.Millbank, S.W.1.Whitehall 5140Building Research Station.Bucknalls Lane, WatfordGarston 2246Building Societies Association.14, Park Street, W.1.Mayfair 0515British Standards Institution.28, Victoria Street, S.W.1.Abbey 3333Building Trades Exhibition.4, Vernon Place, W.C.1.Holborn 8146/7County Architects Society.C/o A. Guy Chant, F.R.I.B.A.Shrewsbury.Salop County Council, 5, Belmont, Shrewsbury.Shrewsbury 3031Cement and Concrete Association.52, Grosvenor Gardens, S.W.1.Sloane 5255						
	CDA CIAD	Copper Development Association. Kendals Hall, Radlett Herts. Central Institute of Art and Design. 41, 42, Dover Street, W.1. Regent 3074						
	CIAM CID CPC	Congrès Internationaux d'Architecture Moderne. Doldertal, 7. Zurich, Switzerland Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322 Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7. Kensington 8161						
T	CPRE CUJC	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloan 4280 Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1. Victoria 1534						
S	DIA DOT EC EJMA	Design and Industries Association. 9, Conduit Street, W.1. Mayfair 5432 Department of Overseas Trade. 35, Old Queen Street, S.W.1. Victoria 9040 Electricity Commission. Savoy Court, Strand, W.C.2. Temple Bar 7565 English Joinery Manufacturers Association (Incorporated). Sackville House, 140 Biograditie, W.1 House, 1448						
S	EPNS FAS	40, Piccadilly, W.1. Regent 4448 English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.						
ts	FB 1951 FASSC	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1. Whitehall 9606						
ı t	FBI FC FCMI	Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.						
	FDMA FLD	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.						
	FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583						
80 80	FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041						
<i>r</i> ,	FS (Eng.) GG HC IAAS							
	ICE	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S. W.1. Sloane 3158						

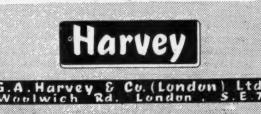


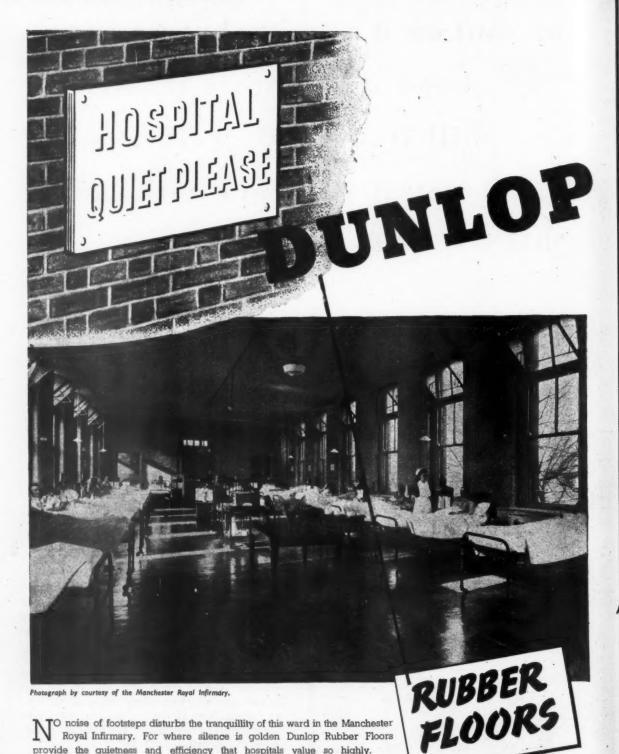






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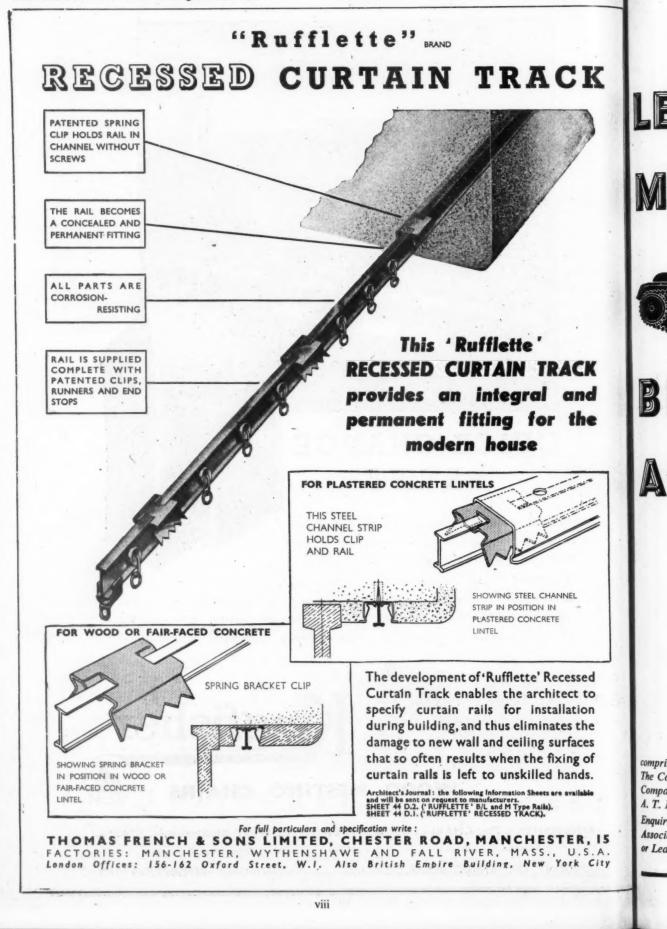
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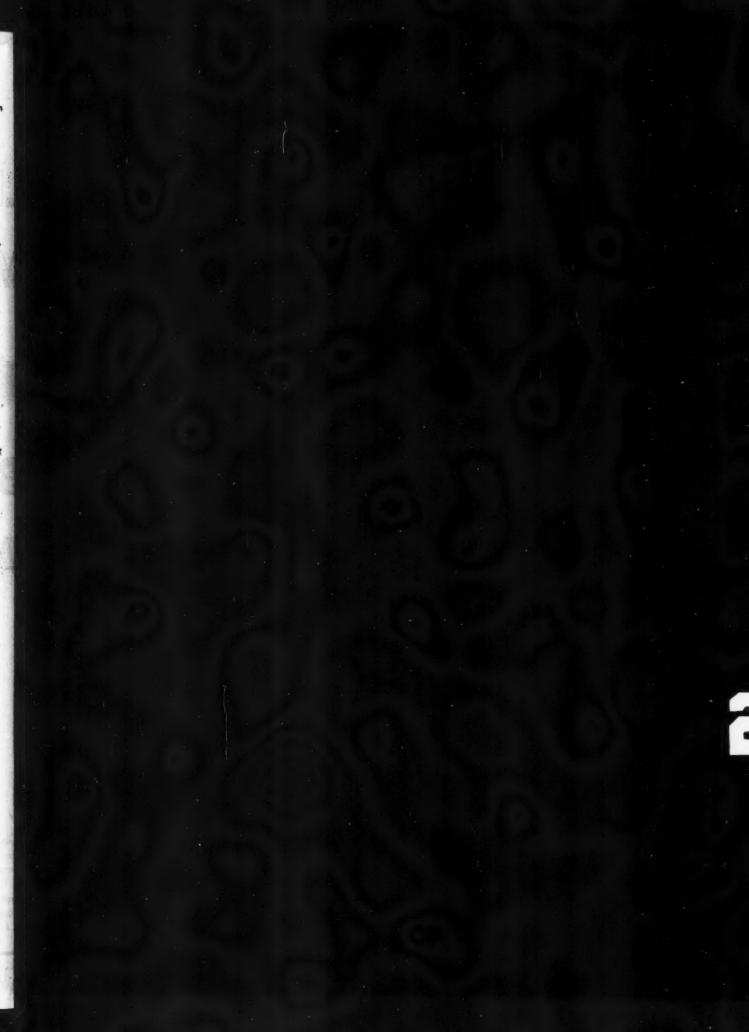
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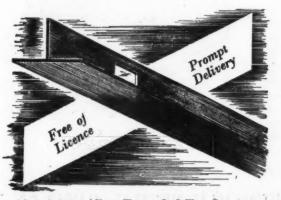
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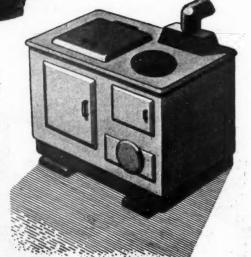
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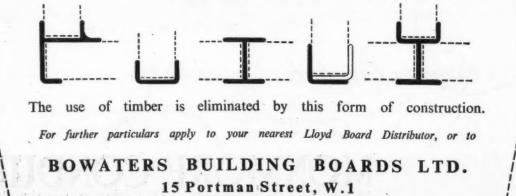
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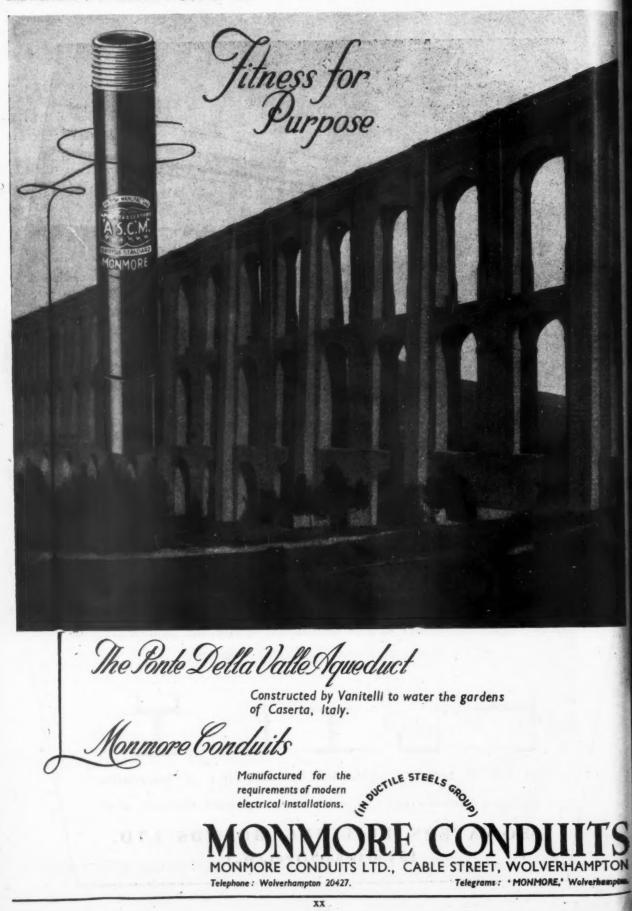
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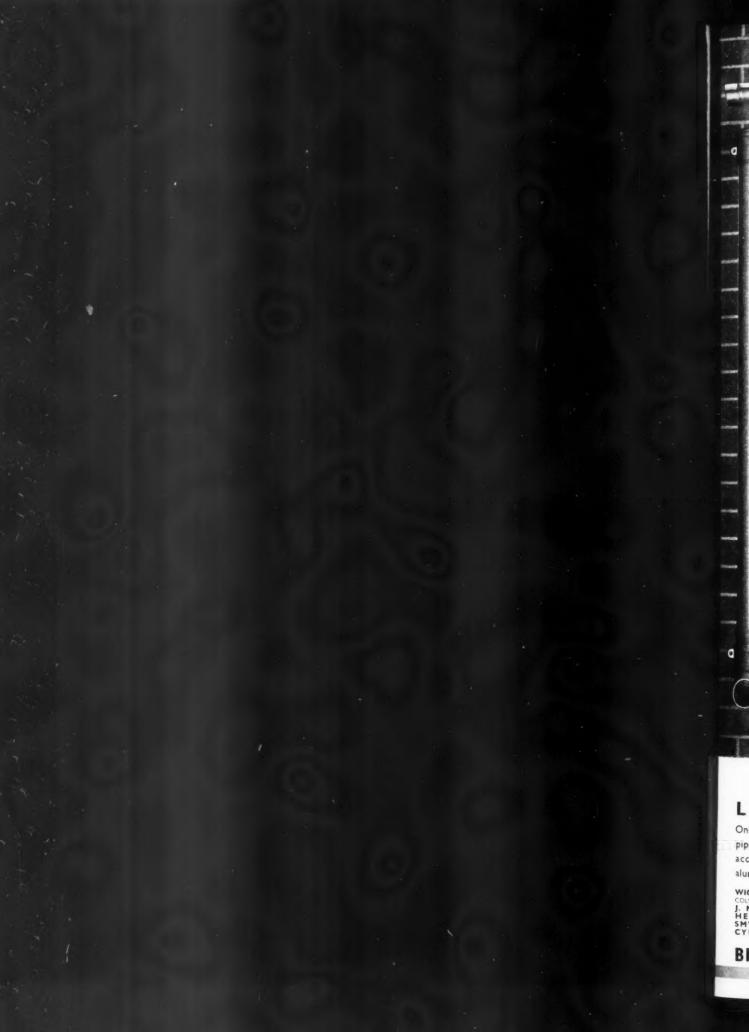
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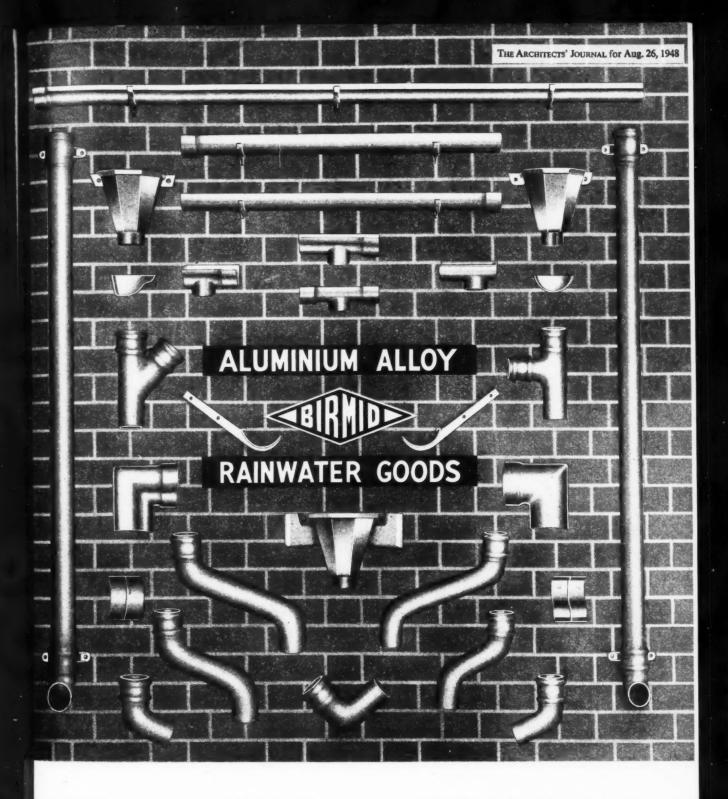
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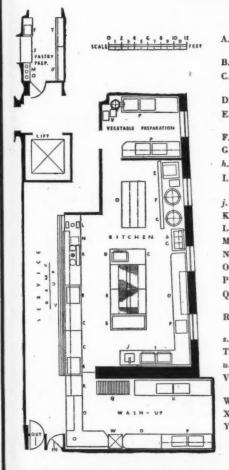
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ILLUSTRATED ARE PLAN and views of the recently equipped restaurant kitchen of Messrs. Debenham & Freebody, Wigmore St., W. The equipment is electric and steam, all special finish with stainless steel service countering, sinks, etc; to be compared also with Messrs. Marshall & Snelgrove, also recently refitted by the company. Most installations have their design problems, often to



comply with special architectural conditions, and Debenham's was no exception. Here, as an example, wash-up and kitchen are on different levels, necessitating a ramped service passage. Hoods are of special design and are constructed of anodised aluminium.

The Kitchen



- A. 4-oven electric range with pot and pan rack over.
- B. Bain maries, steam heated.
 C. Hot service counter closets, steam heated.
- D. Teaster, electric.
- E. 3-compt. wet steam oven with steam and grease trap.
- F. 30-gallon steam boiling pan.
- G. 15- " " " "
- h. Existing electric fish fryer.
- I. Double compartment electric grill with hot closet over.
- . Existing " Jiffy " grill.
- K. Tea and coffee set, steam heated.
- L. Water boiler, steam heated. M. Electric boiling plate.
- N. Counter with tea-leaf sink under.
- O. Tables, stainless steel.
- P. Sinks and drainers, stainless steel.
- Q. Pot rack, galvanised with enamelled framing.
- R. Cleans stacking rack, stainless steel.
- s. Existing marble top table.
- T. Bread cupboard.
- u. Existing cupboard.
- V. Potato peeler with dirt interceptor.
- W. " Rotex " dishwashing machine.
- X. Galvanised pot sink and drainer.
- Y. Service tray slide, stainless steel with steam heated hot closet under half its length.

Plan showing new layout of the kitchen of Messrs. Debenham and Freebody. Note the wide service ramped passage which also acts as emergency fire exit for the restaurant.

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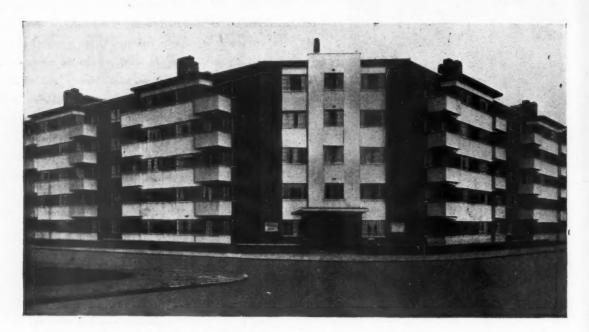
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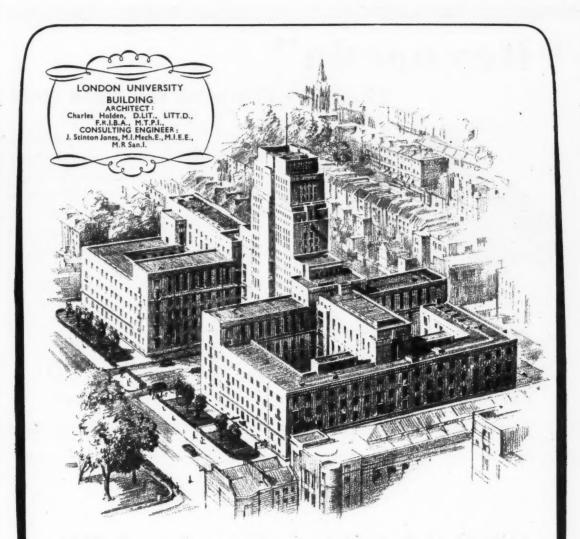
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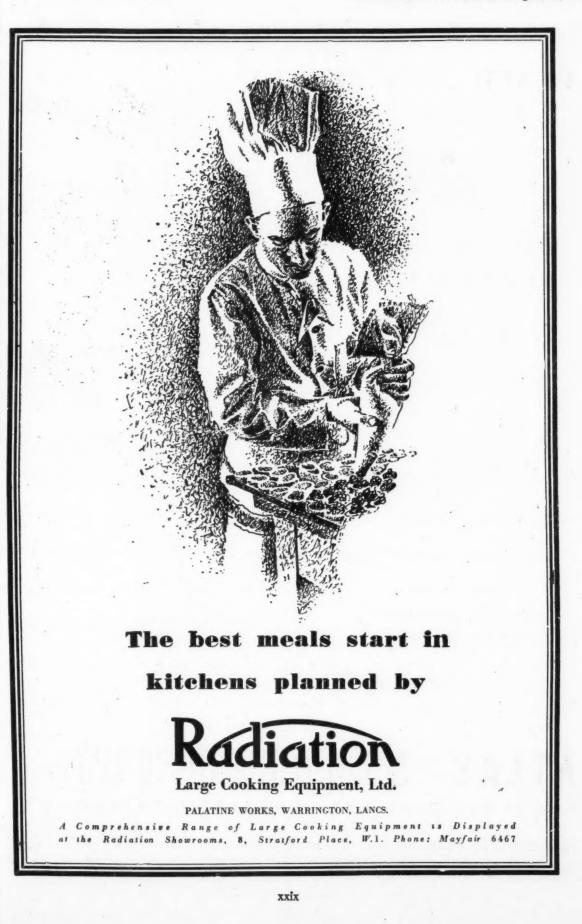
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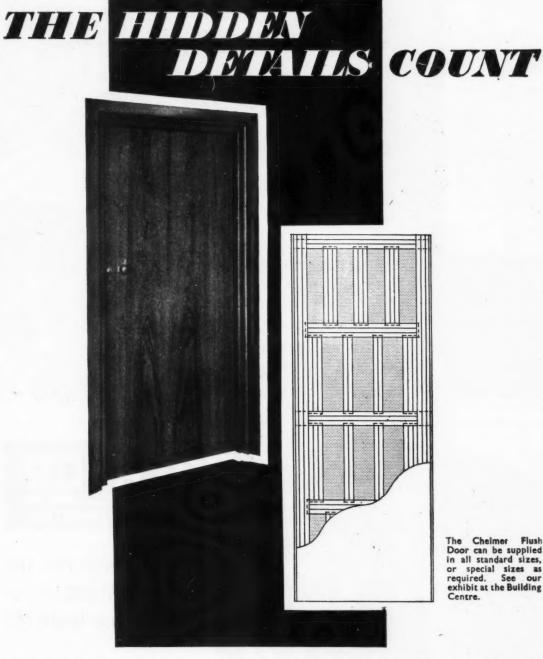
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The illustration is a fine example of a 13th century Covel fireplace at Little Wenham Hall, Suffolk, itself one of the earliest examples of the brick house construction as opposed to the stone built castle. This type of fireplace marks the first stage of "planned heating," for prior to its introduction, fires were built in the middle of the great hall and the smoke found its way out through the roof.

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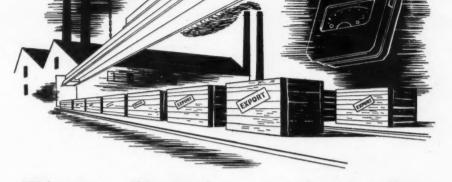
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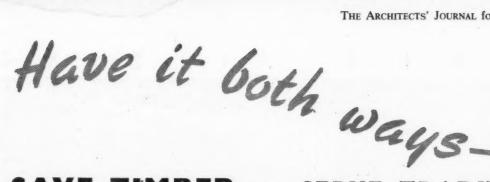
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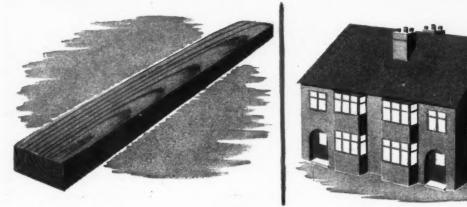


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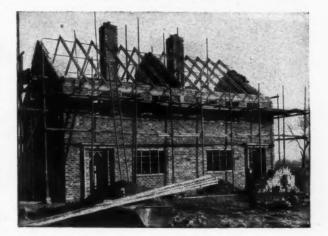
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THE ARCHITECTS' JOURNAL for August 26, 1948 [191

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



be added to the subscription list as soon as possible. Subscription rates ; by post in the U.K. or abroad, £1 155. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 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 15s. each ; carriage 1s. extra.

D	Ι	Α	R	Y	F	OR	AUGUST
SE	P	ΓE	MB	ER	A	ND	OCTOBER

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

BIRMINGHAM. Design Week. (Sponsor, CID.) Oct. 11-16

Carls, J. Control Control Control Plan-ning Summer School. At Cambridge. The main lectures and discussion groups will be held in the Mill Lane Lecture Theatres. Aug. 26. 10 a.m. Geoffrey Clark. Planning Problems of the Country-side; Afternoon, Discussion Groups. Aug. 27. 10.0 a.m. Denis Chapman. Social Aspects of Town Planning. Afternoon: 27. 10.0 a.m. Denis Chapman. Social Aspects of Town Planning. Afternoon: Discussion Groups: 8.0 p.m. Annual General Meeting. Aug. 28. 10.0 a.m. Debate. (Sponsor, TPI.)

UNTIL AUG. 28 G LASGOW. Exhibition of Drawings and Models of East Kilbride New Town. At the Scottish Building Centre, 425, Sauchichall Street, Glasgow, C.2. (Sponsor, BC.) UNTIL SEPT. 4

LONDON. Darkness into Daylight Exhibition. At the Science Museum, South Kensington. (Sponsor, Science Museum.) UNTL SEPTEMBER 30 Display of Domestic Solid Fuel Burning Appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, CUJC.) This display is changed at approximately 4-monthly intervals.

PERMANENT EXHIBITION Gas in the Design for Living. Exhibition of gas cookers, space and water heaters, laundry equipment and portable cooking and heating appliances. At the Building Centre, 9, Conduit Street, W.1. (Sponsor, RGC) BGC)

PERMANENT EXHIBITION Exhibition of Original Textile Designs. In Murray Hall, Tilbury House, Petty France. S.W.1. (Sponsor, CID.) UNTIL AUG. 26 Exhibition of Photographs and Models of Windmills. At the Victoria and Albert Museum, South Kensington. (Sponsor, V. & A. Museum.) UNTIL AUG. 26 TUC Memorial Building Competition: Exhibition of Premiated Designs. At the Building Centre, 9, Conduit Street, W.1. (Sponsors, BC and TUC.)

UNTIL AUG. 27 Machine Tool and Engineering Exhibition. At Olympia, (Sponsor, Machine Tool Trades Association.) AUG. 26-SEPT. 11 Tool TCPA Dutch Tour. (Sponsor, TCPA.) FROM SEPTEMBER 11

Professor S. Giedion. Discussion: Painting, Sculpture and the Architect. Pro-fessor Giedion will lead a discussion on themes arising from his lecture on August 18: 1. What is the state of architecture today? 2. What is wrong with it? 3. Which

way do we want to move? In the Leciure Theatre of the Victoria and Albert Museum. (Sponsors, MARS Group and the Institute of Contemporary Arts.) 6 p.m. AUG. 31 Contemporary Arts.) 6 p.m. Aug. 31 Biology and Civil Engineering Conference. September 21. Morning: Causes, Effect and Prevention of Soil Erosion. Afternoon: The Effect of Vegetation on Drainage and Floods. September 22. Morning: The Effect of Vegetation in Stabilizing Artificial Slopes. Afternoon: The Use of Vegetation to Stabilize Sand Dunes. September 23. Morning: The Effect of Vegetation on the Settlement of Roads and The Effect of Vegetation on The Settlement of Structures. Afternoon: Algal Growth and Engineering Design. At the ICE, Great George Street, Westminster, S.W.1. (Sponsor, ICE.) SEPT. 21-23 SEPT. 21-23

Building Teachers' Conference. At the Northern Polytechnic. (Convener, D. A. G. Reid, Brixton School of Building.) 10.30 a.m. to 4 p.m. Nov. 27

M AIDSTONE. MAIDSTONE. J. Singleton-Green. Concrete Troubles. At the Maidstone Technical Institute, Tonbridge Road, Maid-stone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. OCT. 7 Discussion. Architects, Builders and Opera-tives. At the Maidstone Technical Institute, Tonbridge Road, Maidstone, (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. Oct. 19 W. Scrivens. The Town Planning Act. At the Maidstone Technical Institute, Ton-bridge Road, Maidstone. (Sponsor, S.E. Society of Architects, Maidstone Group.) 7 p.m. Nov. 30

COMPETITIONS

COMPETITIONS RIBA Prizes for Public and Secondary Schools: A total of 10 guineas in prizes is offered for: 1, The best original illustrated essay dealing with a building or group of buildings with which the competitor is per-sonally acquainted; 2, the best sketches or scale drawings of a building or part of a building in pencil, ink or colour, maximum size 30 in. by 22 in. Assessors: H. T. Cad-bury Brown, Hugh Casson, E. R. Jarrett. Further information from the Secretary, RIBA, 66, Portland Place, London, W.1. Entries by October 7. RSI Prize Competitions: John Edward

RSI Prize Competitions: John Edward Worth Prize (£40) for an essay on Practical Improvements of Appliances or Inventions in or about Dwelling-Houses, and John S. Owens Prize (£15) for an essay on Aimo-Spheric Pollution. Apply Secretary, Royal Sanitary Institute, 90 Buckingham Palace Road, London, S.W.1, for general condi-Road, London, S.W.1, for gene tions. Entries by December 31.

IN	Ľ	4	VV		0
THURSDA No. 2794	Y,		August		1948 . 108
News					193
Tardiness	in 1	Trafal	gar Sq	uare	194
This Wee					195
Astragal's	Note	es and	Topics	• • •	196
Letters fr	om Re	eaders			197
Building	from 1	Bomb	Debris	••	198
Skeels	larter of Hea tants, orton	; Assis Is Con Messr	tant, A htracts I s. Ham 	. W. Ltd.; mett	199
by Edv	ward I	D. Mil	ls	• •	203
Societies	and I	nstitu	ions		206
Informati 10.G5 I Mitred Hips a 37.H2 cating Intern System	Lead I Tileo nd Va Into and al	Soake d or S alleys ercom Auto	muni- matic	То	face e 206
Technica	al Seci	tion :			
Inform	nation	Cent	re		208

The Industry 211

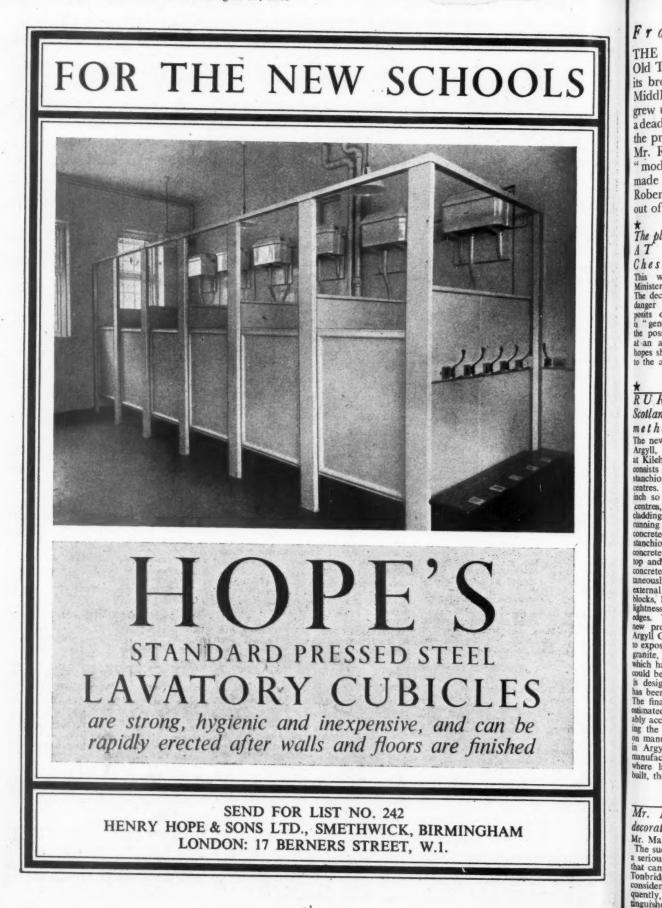
Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

* 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.

A Doncaster firm of builders have claimed a 25 to 30 per cent increase in production since introducing an INCENTIVE SCHEME. The firm, Walter Firth Limited, of Armthorpe, employs about 300 men. Mr. Sydney Firth, the managing director has stated that the scheme now appeared to be working well and was increasing production considerably on the 1946 and 1947 figures. His firm has set a certain number of hours as a target figure for all operations in house building, including joinery, plumbing and painting and for every two-thirds of an hour saved the men are paid extra at of an nour saved the men are paid extra at the standard rate. In addition, the firm has instituted a profit sharing system for their senior employees, and it is hoped in time to incorporate all employees. Those at present in the scheme meet the directors each month to discuss production problems —"an innovation we have found to be extremely helpful," Mr. Firth added.



AN ARCHITECT'S Commonplace Book From

THE TWO EDINBURGHS. [From Vision of Scotland, by G. S. Fraser (Paul Elek).] Yet it is the Old Town which still dominates Edinburgh It speaks for an older Scotland, its sharp, twisty streets, its broken irregular profiles, its towering heights, all suggest the noble and tragic Scotland of the Middle Ages ; as do, indeed, the names in this district-Lawnmarket, Grassmarket, Cowgate. It grew up, packed, cramped, towering, in the days when the great King across the border was a patient, adeadly, and an unremitting enemy; the houses still seem to be huddled round the Castle for protection ; the profile that one sees from Princes Street is dramatic and expectant. The New Town, with what Mr. Robert Garioch calls its "bourgeois geometries," the town of the Adams and of Playfair, the "modern Athens," reflects a quite different Scotland, that of the Whiggamores, of those who had made their peace with England, and it is no accident that one of Edinburgh's finest classical buildings, Robert Adam's Register House, with its graceful corner cupolas and its urbane façade, was paid for out of moneys forfeited from Jacobite estates after the '45.

Cheshire, has been abandoned. This was announced recently by the Minister of Town and Country Planning. The decision has been taken because of the The decision has been taken because of the danger of subsidence caused by salt de-posits on the proposed site. Mr. Silkin a "generally favourably impressed" with the possibility of new town development at an alternative site at Congleton. hopes shortly to make a proposal about this to the authorities concerned.

RURAL HOUSES for Scotland, constructed by a new soluting, constructed by a new method, have been designed. The new type of rural house is called the Argyll, and a prototype is now on view at Kilchrenan, Argyll. The main structure consists of 4 in. by $2\frac{1}{2}$ in. reinforced concrete stanchions of storey height and set at 18 in. centres. Alternate stanchions are offset an inch so that they are in line at threafact inch so that they are in line at three-foot cantres, and when the outer and inner claddings are in position a clear air-space maning round the building is left. Set in concrete erecting blocks at the foot, the stanchions are located at the top by a concrete wallhead beam running along their concrete wallhead beam running along their top and, together with a 4 in. lightweight concrete spine wall which is erected simul-taneously, they carry the roof load. The external leaf is of dense pre-cast concrete blocks, 18 in. by 9 in. by 24 in., frogged for lightness, and tongued and grooved on all edges. The concrete has been treated by a edges developed by the promoters new process developed by the promoters, Argyll Concrete Products, Ltd., Oban, so as to expose the aggregate, in this case Bonawe to expose the aggregate in this case Bonawe granite, the characteristic appearance of which has been retained. Other local stone could be used in the same way. The house is designed for agricultural workers and has been approved by the local authorities. The final costs are not available, but it is estimated that a two-house block in a reason-ably accessible area will cost £1,650 includ-ing the foundations. This figure is based on manufacturing the concrete components in Argyll, but in industrial areas, where manufacturing costs would be lower and manufacturing costs would be lower and where larger groups of houses might be built, the cost would be considerably less.

Mr. MARTIN TRAVERS, the decorative artist, died recently. Mr. Martin A. Buckmaster writes :-

The sudden death of Martin Travers leaves a serious gap in ecclesiastical decorative art that cannot saily be replaced. As a boy at Tonbridge School (1899-1904) he showed considerable promise as an artist, and subse-quently, at the Royal College of Art, dis-inguished himself in architectural and

The plan for a NEW TOWNAT MOBBERLEY, original decorative work, displaying exceptional talent. He did a great deal of work for Tonbridge School Chapel, designing a handsome reredos and a war memorial. Some of his best work is to be found in the City, such as St. Magnus the Martyr, London Bridge, and other churches now destroyed. Travers also did a considerable amount of work in the West End. Perhaps his finest achievement is a large reredos in St. August-ine's, Queen's Gate, reckoned by architects and artists as the finest modern reredos in and artists as the finest modern feredos in London. But Martin Travers liked to be recognized primarily for his stain-glass, which is to be found in numerous London and provincial churches. His attractive designs of a mediaeval character frequently included a charming central figure of the Virgin Mary, based, but by no means copied, from the Union Primitive arthibiting in a from the Italian Primitives, exhibiting in a modern manner the charm of such superlative artists. A great deal of his fine glass has been destroyed by enemy action and can never be replaced in the same spirit. I have lost a friend of fifty years' standing, from boyhood at Tonbridge School to the present day. His studio was near my flat, so we were in constant contact and happy associa-tion. I shall miss him very much.

> Mr. S. GREGSON, F.R.I.B.A., Hampshire county architect, has been appointed architect for the Cornwall County Council, and will take up his new appoint-ment on November 1. Mr. Gregson has had eleven years' service with the Hampshire

Council and his work included Cowes Secondary School, the first to be built in the Isle of Wight since the end of the war at a cost of £65,000. He was also respon-sible for the nurses' home at Whitcroft Mental Hospital, and the receiving block and X-ray clinic at St. Mary's Hospital, Porthwest Parkhurst.

Birmingham's M.P.'s are to press the Minister of Health for a LONG TERM HOUSING ALLOCA-TION for the city. This decision follows a conference between This decision follows a conference between the MP's and the Birmingham housing authorities [see last week's AJ] and a tour of the city's housing sites. Mr. Victor Yates, speaking for the Birmingham MP's, said that the importance of maintaining a continuity of production is house building a continuity of production in house building. It was essential, they thought, to maintain a steady flow of houses in course of construction and in view of the city's great housing tion and in view of the city's great nousing need to increase the building rate. "What we should like the Minister to do," he said, "is to give us a programme for the next five years. We are meeting the Minister again within the next few weeks, and we shall stress this vital point about the im-portance of this city knowing well ahead what it can expect from the Government. It would be a tragedy if we cannot be allowed to build houses, not just on the present scale, but well in excess of it."



A large exhibition called Exposition of Recovered Territories was opened last month by the Poles in Breslau. Breslau, now called Wrocslaw, is one of the former German cities ceded to Poland after the war. Little is heard nowadays of these new Polish territories and the exhibition will show foreign guests for the first time what has become of the once thriving Silesian province. The photograph shows part of the exhibition while it was still under construction.



Tardiness in Trafalgar Square

In spite of the steps that are being taken elsewhere in London to alleviate the drabness and untidiness left by the war, Trafalgar Square seems to remain as unkempt as ever. It was surely possible for the Ministry of Works to have finished their new layout in readiness for this summer and the seasonal influx of tourists. Especially in the year of the Olympic Games it was all the more important that London should appear as attractive as possible. The photograph shows the present state of Trafalgar Square with its ugly litter of hoardings and huts which give no signs of an early disappearance. See also Astragal's note and the photograph on page 197.

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The plan damaged C

struction co Planning A based upon city treasur ation W. Mr. Henry Lance Sir Church, P London. 17.54 acres developm pration h ory order. execut chase. we not y own and Ministry, I Exchequer An impo me, w is the pov quire pay harges. edevelop receive a 300,000,0 depreciation be liable Minister, lieu of d if there i levelopm o not highways probable Transport develop

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The LIVERPOOL RECON-STRUCTION PLAN will involve

a capital cost of £6,193,350. The plan involves the extensively war amaged Central Area No. 1, whose reconarction comes under the Town and Country Planning Act, 1947. The capital cost is based upon a joint estimate prepared by the dy treasurer (Mr. John Ainsworth), in conaltation with the city engineer and surveyor (Mr. Henry T. Hough) and the city architect Sir Lancelot Keay). Concentrated on Church, Paradise and Lord streets, the rea is one of the most valuable outside andon. It covers 46-26 acres, but of these 1754 acres represent roads. To accelerate relevelopment following the blitz, the Corpontion has moved for a special declaraing order. Regulations, which will govern the execution of schemes of compulsory purchase, and their financial implications. The not yet been issued by the Minister of Tom and Country Planning since conaltations are still proceeding between the Ministry, bodies representing local authorites and the affected Government departments, regarding the conditions under which Etchequer grants will be paid.

An important factor in the cost of the cheme, which as yet cannot be estimated, is the power vested in the Minister to require payments in lieu of development charges. Generally, for the purposes of adevelopment, local authorities will not receive any share of the total sum of 500,000,000 allocated in respect of the depreciation of land values, nor will they the liable for development charges. The Minister, however, may require payments in leu of development charges. The Minister, however, may require payments in leu of development charges—for instance, if there is a profit as a net result of redevelopment as a whole. The calculations to not include the extinction of existing hydrways or cost of new highways, or the probable grant-income from the Minister of Transport. The whole basis of highways in redevelopment areas is still under conaderation by the Government, and the

NEWS IN BRIEF

West Riding County Council anticipate an expenditure of nearly £2 million on forty new fire stations. Provision will also have to be made for dequate recreational facilities for fire fation staffs and for about 200 houses for foremen.

The degree of B.Arch (Wales) is to be awarded for the first time. Mr. J. M. Harries of Port Talbot will be the first student to receive the degree. The B.Arch. degree course of the University of Wales, which extends over a period of six Years, was established in 1938, but owing to the intervening war period Mr. Harries is the first to qualify

Three new research scholarships imable at the AA have been awarded. The Imperial Chemical Industries Travelling Scholarship for 1948 has been divided beween Mr. P. A. R. Dickinson (£175) and Mr. Denis M. Jones (£75). This scholarship is for study and research in connection with the decoration of buildings. The Building Centre Scholarship for 1948, value £100, has been awarded to Mr. D. Brown Bullivant. This scholarship is for research into the properties and architectural uses of building materials in Great Britain. A second Research Scholarship (value £25), offered by the Building Centre, has been awarded to Mr. Ian Colquboun, for the study of brickwork in Holland.

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HOUSING STANDARDS

THE Cripps programme of curtailment in expenditure on building, and the changes in the industry already accomplished and foreshadowed, have naturally led

to an examination of possible ways of minimising their effects. Some of the proposals will have beneficial effects on the long term developments of the industry; others the reverse. Among the beneficial results are the more intelligent use of materials, the rationalizing of labour processes, the re-examination of the possible mechanization of much building work, the encouragement of economy in structure and the development of alternative materials. Among the potentially dangerous results is a suggestion, which has indeed been made before, that standards must now be lowered.

There is, of course, as the JOURNAL has often pointed out, a strong case for a re-examination of many of the building standards upon which local bye-laws are based, much scientific data being now available where before only rule-of-thumb or intuition were available as guides. Insulation, weather resistance, strength of timber and plumbing systems need no longer rely solely on age-hallowed custom. In many cases this will lead to thinner walls, lighter structural members and great economy in materials. This is, however, quite a different matter from lowering standards of accommodation or standards of performance as scientifically determined.

Experiences of the temporary housing programme and the certainty that very few, if any, of the sub-standard houses erected under that programme will disappear at the end of the promised ten years, make it all the more important that the temptation to lower standards generally should be firmly There is, perhaps, a case to be made out for some resisted. temporary modifications in the equipment provided for in the Housing Manual, and in the majority of houses now being built the recommendations are certainly not adhered to. The smaller the area of the house the more essential it is to have built-in and fitted cupboards and other equipment if living conditions are not to become intolerable. In the case of many domestic fittings, however, the paramount necessity of keeping a balanced industry, including the proper proportion of equipment, will not permit of extensive modifications.

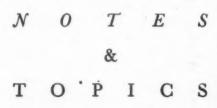
The area of the dwellings, however, must be maintained; of that there can be no doubt. While it is true that in this country our standards in this respect compare favourably with public housing anywhere else in the world this cannot be regarded as a justification for any reduction. Mrs. Ruth Glass (in the A.J.) and others have shown that there is need for a more careful examination of the distribution of dwellings of different sizes, the three-bedroom house certainly not being the most urgent need. But no excuse should be accepted for crowding more people into less space. The day of the minimum house as a desirable object is, it is to be hoped, dead. The vigorous examination, particularly in other European countries, of the smallest possible area in which existence 196] THE ARCHITECTS' JOURNAL for August 26, 1948

was possible has no doubt served a valuable purpose, but this minimum mentality, if persisted in, may easily become an intolerable barrier to freedom.

While the most serious attempt to reduce standards will be in the direction of smaller minimum areas, the lowering of the quality of workmanship and materials is equally unsatisfactory. Already there has been a noticeable decline in this respect, and although there may be some obvious immediate advantages such a policy will, in the long run, prove very costly. Anything less than the recommendations of the *Housing Manual* must be regarded as inadequate.



The Architects' Journal 9, 21 and 13, Queen Anne's Gate, Westminster, S.W.1 Phone : Whitehall 0613



REPORT FROM GERMANY

The three years since VE day have given Germany time to think about other things than day-to-day existence in a shattered country. The tempo of life has now become steadier and a stocktaking is possible. A colleague who has recently returned from a long visit to Germany tells me that its architectural future is becoming much more predictable. A sign of a returning professional unity was the first post-war conference in June of the German branch of the International Federation of Housing and Town Planning which was attended by 700 German architects and planners from all four zones and a strong British contingent including Sir George Pepler, Max Lock, Jacqueline Tyrwhitt and Gerhard Rosenberg.

The conference seems to have had a tonic effect. German architects have had twelve years in a professional padded cell, and the younger men, trained under the Nazis, have little in common with those of the generations between 1902 and 1908 or thereabouts whose ideas had time to crystallize before 1933. There are enough of these older men with experience and imagination to fill all the important jobs and most of the posts in the schools, but they are deeply anxious about the twelve-year gap, and the continuity of liberal European traditions. One remedy lies with us. "You should have sent us thousands of teachers and lecturers," someone said to my friend.

Conditions for practising vary in each of the occupied zones. Common to all has been a spate of building in the places where it is least needed. In the prosperous and undestroyed countryside, for example, farmers and merchants have been spending their black market marks on new building, although generally without architects' advice. In the towns work has been mainly on war damage repairs and conversions. But the amount of black building is in direct proportion to the economic stability of each zone. Where consumer goods are relatively plentiful and currency stable there is more work above-board. Hence the American zone is nearest to normality, with the British zone a poor second, and the French a long way behind. And, alas, bureaucratic red tape in the British, French and Russian zones is producing a familiar feeling of frustration.

What conclusions are we to draw from all this? I think we need have no fears about the quality and capabilities of the profession in Germany. But marks (and Marx?) lie at the root of all difficulties. Unfortunately, the economic remedy is not in the hands of architects alone.

CONURBATION

I have just finished pursuing my way through Conurbation,* the first serious study of the alarming contemporary phenomenon which was given that name by Patrick Geddes. The West Midland Group has presented an admirably clear and comprehensive picture of the facts underlying megalopolis." Some surprising things emerge in the analysis of population trends, and the high birth-rate in such unpromising surroundings is something to wonder at. The Group have studied very thoroughly the industrial structure of the area both from the point of view of economy and efficiency and from the point of view of maintaining a high level of employment distributed as widely as possible among the population; male, female and juvenile. The book's obvious limitation is that, being only a survey, it makes no attempt to discover whether the " conurbation " is a kind of development capable of providing a satisfactory environment for human beings.

Robert Sinclair some years ago in his Metropolitan Man lifted a corner of the lid over the London ant-hill. It would be an invaluable service to the planners and others for whose benefit the West Midland Group's activities are pursued, if they were to go on to study the effects of city living on the inhabitants. It is doubtful if a few more acres of open space, a shuffling of housing densities, better designed houses, schools and hospitals, or even easier access to a few beauty spots, will suffice to make these vast agglomerations satisfactory places to live in. Nobody knows if palliatives will suffice, or whether we must look for some more fundamental modifications of "conurbations."

GIEDION OVERFLOW

It being August, I hardly expected my prediction that Dr. Giedion's lecture last week would draw a full house to be so literally fulfilled. The hall seated about 250, but it was packed out with people standing round the walls and sitting in the aisles, and at least another 200 were left standing in the street. In fact I am told that a riot was only prevented by an announce-

* Conurbation, a Planning Survey of Birmingham and the Black Country. By the West Midland Group. London: The Architectural Press. Price 30s. now b discus his le on Au While were hall t audie groun the h lectio who : stantl havin Giedi came ideas scien same Emp tural muc casti hear as to

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Trafalgar Square photographed this week showing the crowd of excluded visitors. See Astragal's note.

ment that Dr. Giedion would speak again before leaving London. It has now been arranged that he will lead a discussion on the issues he raised in his lecture (see page 206) at 6 o'clock on August 31 at the V and A Museum.

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While the disappointed Giedion-fans were being pacified outside, inside the hall the doctor himself was taking his audience over an immense amount of ground at breath-taking speed, with the help of a wonderfully assorted collection of illustrations. Even those who felt, as I did, that they were constantly missing points through not having the knowledge to take up Dr. Giedion's allusions promptly enough, came away stimulated by his flow of ideas and his ability to show art and science, past and present, as part of the same picture. The Swedish "New Empiricism," to which The Architectural Review has lately been giving so much attention, came in for severe castigation, and I have never before heard the word "cosiness" spoken so as to sound so irretrievably wicked.

PULL-UP FOR AD-MEN

The two visual offenders most frequently encountered along the roads of Britain are the roadside café and the advertisement hoarding. The last of these has been firmly dealt with under the T and CP Act, and from August 1

onwards (with a few reasonable exceptions) no more new outdoor advertisements are allowed to disfigure the countryside.

So at long last the battle of Mr. Williams-Ellis, the CPRE and others is more or less won, though it's a pity that nothing can be done about existing hoardings, save to insist that they are kept clean and tidy. They are to have a period of grace of three years, after which they may be challenged by the local authority, upon which the owner has to make application as though his hoarding were a new one," and will have to remove it if his application is refused. Good!

SOUARE UP

The Minister of Works has earned no thanks from Londoners for his dilatoriness in completing the reconditioning of Trafalgar Square. For tourists it is the centre of London and it would surely have been possible to get the work finished in time for the tourist season. My photograph this week shows the inhospitable welcome the square offers to thousands of foreign visitors. Instead of strolling in comfort among its fountains and monuments they can only crowd the pavements and peer through the gaps of a peculiarly hideous hoarding.

ASTRAGAL

LETTERS

Leonard C. Howitt, F.R.I.B.A., A.M.T.P.I.

Charles J. Cable, F.R.I.B.A.

7. S. Allen, A.R.I.B.A., M.T.P.I.

Edmund Ward, A.R.I.B.A.

Round the Table

SIR.—The choice of the subject "Public versus Private Practice" was deplorable and the confused and prejudiced correspondence which has followed was not unexpected. which has followed was not unexpected. Public and private practice are not opposed but are complementary: the one is the most convenient and economical method of carrying out certain limited functions whilst the other is the only means of undertaking the much larger remainder. It is as ridicu-lous to discuss one versus the other as to debate arms versus legs. The root cause of the present difficulty is the policy which restricts private building.

the policy which restricts private building. There is sufficient potential work entirely in the field of the private practitioners to keep all of them working overtime for the rest of their lives and the efforts of your correspondents would be more usefully employed in seeking a cure for their troubles in that direction rather than in-dulging in the sport of official bating. One writer unwittingly quotes the Code of Pro-fessional Practice which declares that "An Architect must not attempt to supplant Architect must not attempt to supplant another Architect," whereas the whole object of the divertionists is to supplant the official architect.

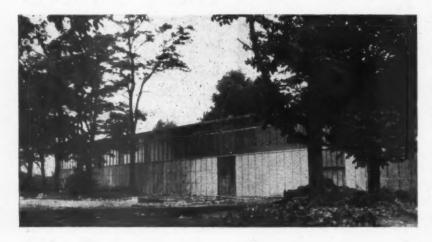
Accusations such as those which appear in letters in your issue of August 12 merely demonstrate ignorance and provoke even long-suffering public practitioners to bitter retort. Your correspondents might have more regard for unity in the profession and find some cause for satisfaction in the fact that the work at present in progress is at least being undertaken by qualified archi-tects. Attacks on their colleagues, fortunate to be so employed, will do nothing towards, releasing some of the vast amount of poten-tial work which is in the province of the private practitioner. Manchester

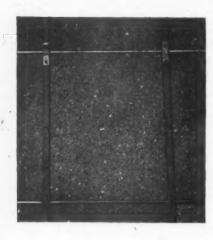
LEONARD C. HOWITT

Sir.—The letter by Dex Harrison in your issue of August 12, is worthy of careful consideration and action, for few experi-enced architects will believe that it is possible for a County Architect to carry out work in his own department at half the cost of a private architect's fees. Private architects who have discussed the subject with me all agree that we ought to be en-lightened on the system of accounting adopted by the County Architect of Bucks. Has he taken into account all the costs that Has he taken into account all the costs that fall on the taxpayer, directly and indirectly when the work is done in his office? Has

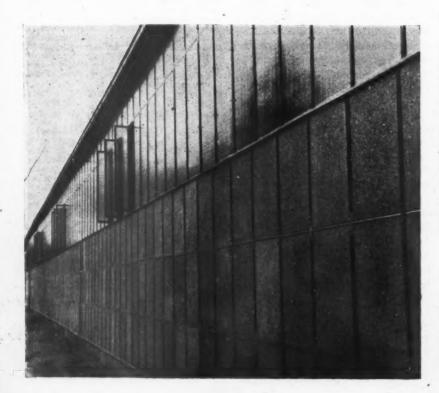
when the work is done in his office? Has he included the following items:— 1. The cost of superannuation paid by the County. The private architect has to pay higher salaries in order to compete with this subsidy. 2. Interest on the cost of the building occupied by architectural and administrative staff. The private architect has to pay rent as a rule, or interest on capital if he owns the building. 3. The cost of rates, taxes, telephones, cleaning, main-tenance. These should be included in the cost, whether paid in cash or not, for the cost, whether paid in cash or not, for the private architect cannot evade them. 4. Fire insurance, and other insurances apart from National Health. 5. Interest on

BUILDING FROM BOMB DEBRIS





The enormous amount of debris caused by bombing during the last war in German towns is a grave problem for the local authorities. The city of Frankfurt-on-Main, with 35 million cubic yards of rubble, has found an economical solution which goes some way towards answering the problem. The rubble is broken down and sold as aggregate of graded sizes or is turned into building blocks in the city's concrete works. It is estimated that the value of the usable debris pays for its removal cost. Above and below are two views of a building made of these blocks. It is an exhibition hall, designed by Gerhard Weber, and is one of a series erected for the municipality of Frankfurt on the former Fair site. The construction is of tubular steel trusses standing clear of the cladding, which is constructed with patent glazing bars, with glass above and building blocks below. A horizontal weathering fillet (see detail, left) allows the fixing of the concrete slabs by the same cover fillets as are used for the putty-less glazzing.



the equipment, e.g., surveying instruments, plan chests, also the cost of drawing and tracing paper and consumable stores. Even the pegs for setting out have to be paid for by somebody. 6. Telephone charges, travelling and hotel expenses, stationery, etc. 7. The entire cost of the clerical departments, so far as these deal with the work under consideration. The foregoing are not the only things to be taken into consideration in making a true comparison. Sometimes building inspectors, surveyor, staff clerk-of-works, as distinct from those on the site, are often called in to help with the work, and their salaries should be accounted for in computing the total cost

on the site, are often called in to help with the work, and their salaries should be accounted for in computing the total cost. Then when the peak period is past, the process of gradually shedding the redundant staff is an expensive one for the taxpayer, for architectural assistants cannot be sacked immediately they have finished the working drawings, nor can they be fully employed, and further costs are incurred that should be added to the bill. On the other hand the private architect's set-up is more elastie, and there is the general run of housing, agricultural, industrial and general work on which staff are employed between and after the official jobs. Perhaps the most important aspect of all is the fact that by employing private architects the work can be done *now* and not put off till the costs of labour and material have risen to an extent that more than offsets the total amount of the fees paid to them.

an extent that more than offsets the total amount of the fees paid to them. Kent has led the way, London, Essex, Lancashire and others have followed, and others are also following. London is probably the largest employing authority in the world and it may be assumed that they are not wasting public money. Many private architects have a profit-

Many private architects have a profitsharing arrangement with their assistants, and the principals often work early and late, sometimes all night in order to get the work out to schedule time, and it cannot be denied that the private architect is able to make greater speed on rush jobs than is possible in the large official offices. A careful survey of the whole of the facts is indicated, and the publication of the findings.

findings. CHARLES J. CABLE, F.R.I.B.A., Chapter, Tunbridge Wells Chapter, South Eastern Society

Sevenoaks

The John Dower Collection

of Architects.

SIR,—A collection of books belonging to the late Mr. John Dower on Town and Country Planning and kindred subjects, and sets of lantern slides, have been presented to the School of Town and Country Planning, King's College, Newcastle-upon-Tyne. The books are the gift of Mrs. Dower in the memory of her husband. It is perhans appropriate that this collec-

It is perhaps appropriate that this collection should be housed in the Department of Town and Country Planning which is conducting the only Degree Course in the subject in the Commonwealth, and in which special attention has been given to the problems of the countryside.

Mr. John Dower's report on National Parks, known as the Dower Report, marked a historic step forward in country planning, and his own books will prove a most valuable addition to the Library.

J. S. ALLEN, Professor, Department of Town and Country Planning, University of Durham. Newcastle-upon-Tyne.

TUC Competition

SIR,—With reference to Astragal's note on the TUC Competition in the ARCHITECTS JOURNAL for July 29, we should like you to know that half the members of our partnership were trained at the AA, and were those chiefly responsible in this instance. EDMUND WARD

London

(Brown, Henson & Partners)

Right, 1 glass sc lounge Right, the hotel front. Below, the glass screen and doors between the lounge and the dining room.

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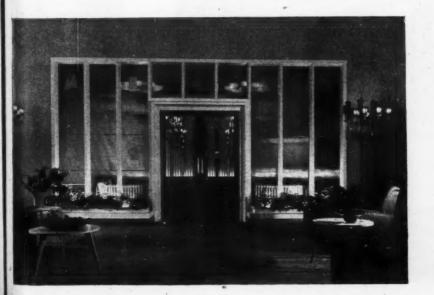
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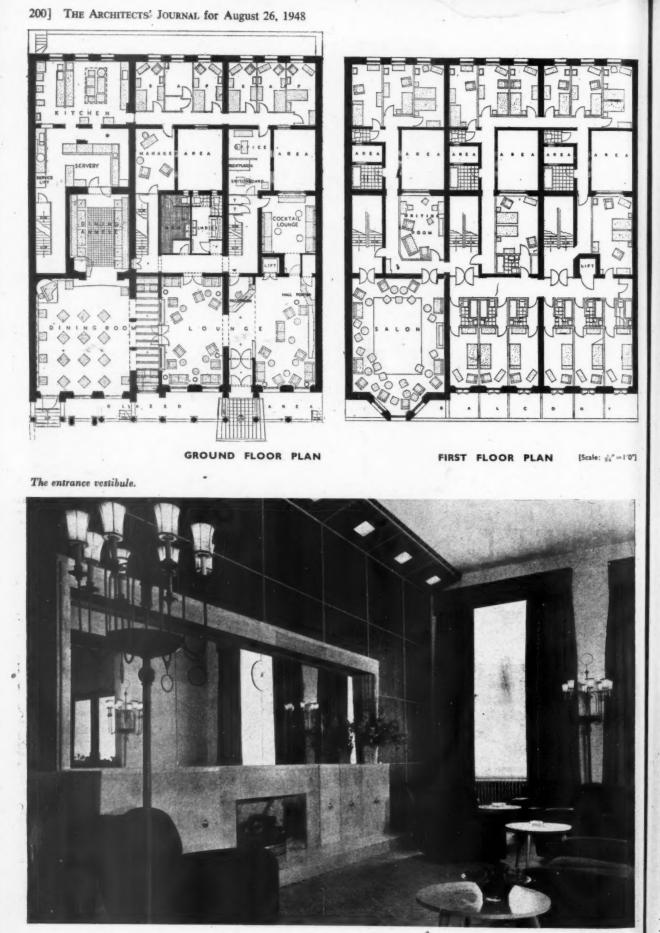
HOTEL IN LANCASTER GATE, LONDON

BY JOHN CARTER; ASSISTANT A. W. SKEELS, OF HEALS CONTRACTS LIMITED; CONSULTANTS, HAMMETT AND NORTON



GENERAL—An early Victorian building, which had been requisitioned and suffered considerable deterioration, was required to be redecorated and replanned to provide a first class 60-roomed hotel.

PLAN—The main difficulty was to avoid the extreme height and length of the original rooms causing an awkward proportion for the small bedrooms. This was largely achieved on the first floor where the height was 14 ft., by providing a bathroom for each bedroom off the central passage so as to reduce the excessive length of the bedroom. In order to have the maximum number of bedrooms the width was reduced to a minimum and the beds placed lengthwise in each room with a special bedhead added. The bedhead fitment has space for a telephone,



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Below



reading lamp, books and two drawers. To facilitate making the beds each is fitted with french castors, which give very easy running. There is a rediffusion loudspeaker with local control in each room. On the ground floor the party walls, which originally divided the main front rooms, have been removed and a more open planning arrangement made. The existing light-well has been roofed in at ground floor level to improve circulation from kitchen to dining room.

ELEVATIONAL TREATMENT —The exterior has been painted grey to first floor level and white above. The underneath of the balcony has been painted pale yellow.

INTERNAL FINISHES - The

The reception lounge.

Entrance Vestibule. The walls are white, doors venetian red, all other paint work grey. The reception desk is of walnut and is made conspicuous by having illuminated glass bricks inset into the front panel. There is overhead louvre lighting.

Reception Lounge. The colour scheme is the same as the entrance vestibule. On the floor is a twotoned beige carpet; chairs and

Below, two views of the cocktail bar.

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IN LANCASTER GATE

202] THE ARCHITECTS' JOURNAL for August 26, 1948

settees are upholstered in blue. The fireplace wall is finished with Australian walnut veneer on $\frac{1}{8}$ in. asbestos board, the panels being framed with off-white wooden cover beads. An inclined panel on the angle of wall and ceiling conceals a horizontal plumbing duct and serves as a lighting feature with inset sandblast glass panels. Curtains are deep lime yellow appliquéd with blue cord. The occasional tables have white sycamore tops with aluminium legs painted yellow.

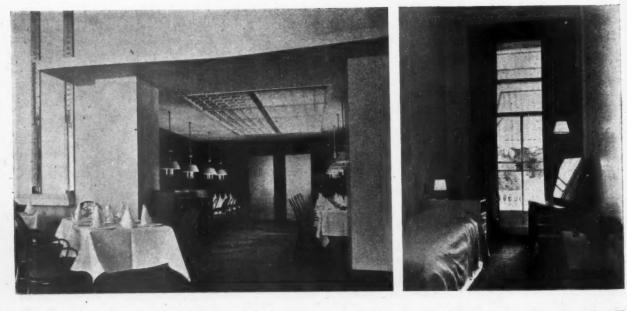
Cocktail Bar. The walls are painted white above a walnut dado. One wall is finished with a brick - coloured patterned wallpaper. Upholstery is in dark blue. The cocktail cabinet is of walnut veneer asbestos sheet on a wood frame.

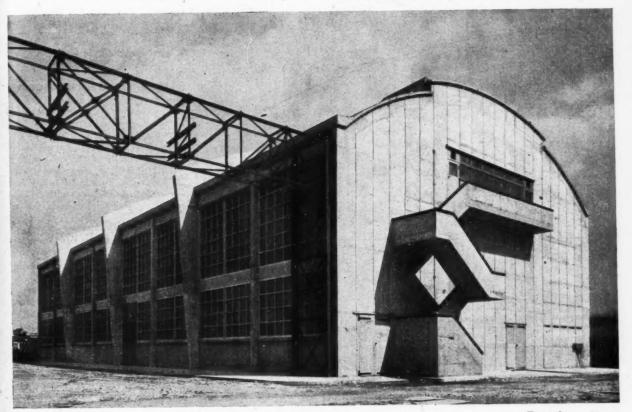
Lounge. A reeded glass and concrete screen separates the lounge and the dining room. The glass panels have been decorated with sandblast motifs.

Dining Room. The chairs and tables are in wrought iron upholstered with cushions and arm rests of a rust and gold cotton fabric. The curtains and pelmets are of off white appliquéd with lime yellow cord. The venetian blinds are white with lime yellow tapes. Part of the dining room has a lowered ceiling, walls panelled with Australian silky oak with 'covered beads painted blue. Egg crate false ceiling is covered with painted ply glass and lit from above. For sub-contractors see page 212.

Right, a corner of the dining room. Below, left, the dining room annexe, right, a typical single bedroom.

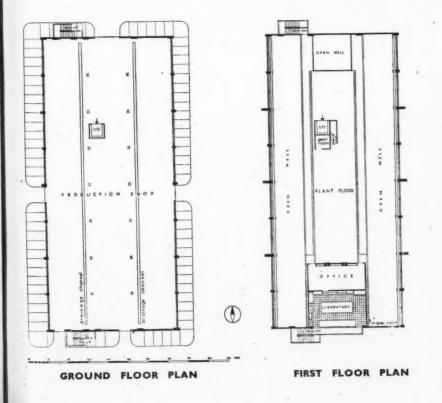






From the south-west.

FACTORY AT DAGENHAM DESIGNED BY EDWARD D. MILLS



GENERAL—The purpose of the scheme was to provide a building to house chemical manufacturing plant, together with a laboratory and office for chemists in charge of the factory. A plant floor running down the centre of the building was required, connected to the ground level by stairs and a lift.

SITE—The site boundaries were predetermined by the existing factory road grid, and factory roads exist on all four sides.

PLAN—The building was designed as a weatherproof covering over plant to be erected at various levels, and the structure was required to interfere as little as possible with the free arrangement of the plant.

Plant will be erected on the 1st floor platform and the ground floor, and a light mezzanine floor will be constructed as the plant layout demands between the two levels. Emergency exits are provided at all floor levels and communication is by means of external and internal

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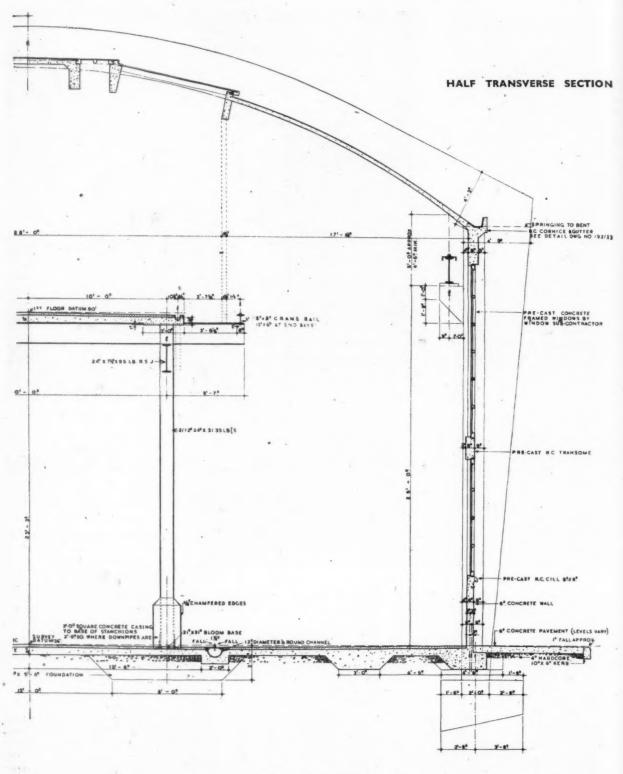
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staircases and a goods lift of 1 ton capacity. 5-ton travelling cranes run the entire length of the building on east and west sides for the purpose of installing and removing plant. The flat slab at the crown of the roof has

removable concrete panels to allow pipes to project through the roof, and the roof glazing can be removed for a similar purpose. The building is surrounded by a concrete pavement for the storage of raw materials prior to use, or for

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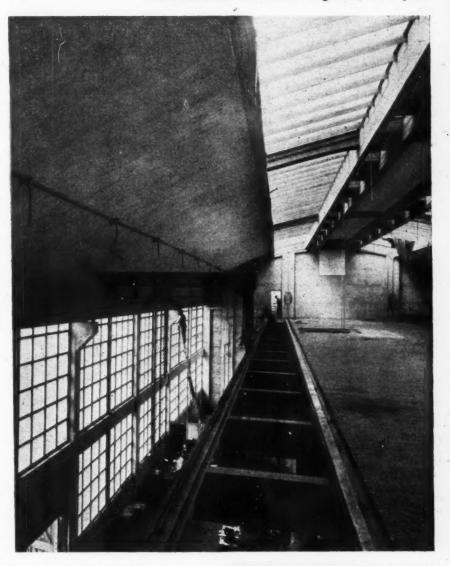
operations which cannot safely be carried out in an enclosed space.

CONSTRUCTION-The building is 144 ft. long and 64 ft. wide with a single span reinforced concrete shell membrane roof (21 in. thick) stiffened by three reinforced concrete portal frames. The walls of the building are reinforced concrete with concrete windows practically the full height of the building on the east and west elevations. The shell concrete roof is broken by longitudinal reinforced concrete purlins to take roof glazing, removable flat slabs for upward plant extensions, and support for an extract ventilation duct running the full length of the building. The (first floor) plant floor is in reinforced concrete on structural steel framework. Office and laboratory partitions are $4\frac{1}{2}$ in. brickwork plastered and painted. All plant floors are paved with chequered Staffordshire blue paviors and are laid to falls to acid-resisting stoneware drainage channels covered with removable cast iron gratings. External staircases and balconies are constructed of reinforced concrete with asphalte handrails to balustrades. The shell concrete roof is finished externally with two coats of bituminous emulsion. Extra large doors or roller shutters are provided on three elevations to give access for large items of plant and smaller access doors are incorporated for personnel.

ELEVATIONAL TREATMENT -In view of the atmosphere of a chemical factory, materials likely to suffer from corrosion have been avoided, and where this is impossible careful protective measures have been taken to reduce maintenance costs. Rain-water pipes are in cast iron embedded in the reinforced concrete columns on the east and west elevations. All large concrete wall surfaces (north and south elevations) have vertical vee joints at regular intervals to reduce surface staining and the concrete has been left in its natural colour after rubbing down.

INTERNAL FINISH—The internal walls to the manufacturing section of the building are in natural concrete, and the internal surface of the roof is insulated with $\frac{1}{2}$ -in. fibreboard as permanent shuttering and plastered. Laboratory floors are tiled, and the office floor is covered with $\frac{1}{2}$ -in. lino. Fixed laboratory fittings are constructed with sandlime brick supports, and tiled concrete tops. The joinery and movable fittings are in Colom-

DESIGNED



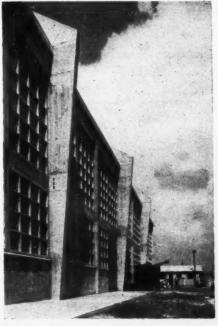
Above, the production shop from the plant floor. Right, from the southeast.

bian pine polished in its natural colour.

SERVICES—A 1-ton lift is provided and 5-ton travelling cranes running the full length of the building. The laboratory and office are artificially ventilated and all electrical wiring and fittings are flameproof. Laboratory services, drainage, etc., are in accessible ducts, and full services to laboratory benches has been installed.

CONTRACTS—Single contract, with Messrs. Holland & Hannen and Cubitts acting as building managers using direct labour provided by the client's permanent building staff. For list of sub-contractors, see page 212.

BY EDWARD



D.

MILL



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

MARS & ICA S. Giedion

August 18. A talk* given at a joint meeting of the MARS Group and the Institute of Contemporary Arts by Professor S. Giedion, on PAINTING, SCULPTURE AND THE ARCHITECT. The meeting was held at the London School of Hygiene and Tropical Medicine, Keppel Street, W.C.1. Sir Leigh Ashton was in the chair.

Professor Giedion : For two reasons, I do not intend to limit my treatment of the interdependence of Art and Architecture entirely to the historical aspect. First, this could anyway not be handled competently in one evening. I have tried to do this elsewhere in a fragmentary manner, and I have also just finished a course of lectures, lasting a whole year, on "The means of expression since Picasso" without really coming to an end of the manifold problems inherent in modern art. The second reason is that recent discussions on the state and trends of architectural development in this country and on the other side of the Atlantic show that the position at the moment is critical and urgent. These discussions must be of interest and concern to all of us, and, if we occupy this evening in taking them a stage further, it may not be entirely useless. As a result we may be able to ascertain, in a mild dialectic form: What is the actual state of architecture today? What do we think is wrong with it? and, in synthesis, What way do we want to move?

It is quite normal today to find that many people have lost the religious convictions they were taught in their youth; that some have also become heavily disappointed with

* Professor Giedion's lecture was illustrated with lantern slides, but it is not practicable to include his commentary on them in this report. politics and politicians, and are therefore dissatisfied with their former political creed; and it is probably not an over-statement to assert that more people have no real form in which to express their emotions. Also the architect, as a creature of this period, shares, to a certain degree, the properties of the common man. He may have lost his religious convictions, he may have lost his renthusiasm for politics, but if, in addition, he has no clear artistic (æsthetic) direction, his creative apparatus, his imagination, acts without a rudder, and he is lost altogether. We are aware of the fundamental importance of the social and functional background of human activities from science to art. But we consciously emphasize another element—that of emotions and feelings. These elements are often regarded as unimportant. Nevertheless, they have an immense influence on the actions of man.

The misfortune of the past century can, for a good part, be explained by the fact that it was believed that industry or technique had only functional and no emotional content, and art belonged to an isolated sphere without any relation to the newly created realities. The consequences were that the human equilibrium was disturbed; science, production and industry advanced almost unhindered. But the spheres of feeling, detached from life, vacillated from one extreme to the other. The influence of the emotional is much deeper than it is often believed—art, architecture and technique, as well as industry and science, are created by men having minds formed in the same period. Our task is to find the emotional background which binds together these different spheres.

INTER-RELATION OF SCIENCE AND ART

Due to the vast bulk of knowledge accumulated during more than a century, our age has one outstanding task: to find the inter-relation between the different realms of science and art. This is to absorb in an emotional way the results of science. To absorb in a:: emotional way is to digest by feeling what the intellect has created. To be more precise, our task is to overcome the differences between the methods of feeling and the methods of thinking which were so prevalent in the nineteenth century. This identity of thinking and feeling is the sign for a universal conception of the world. The Renaissance owned it, the Baroque owned it, and we must reconquer it with our own means.

In the eighteenth century, mountain scenery was considered the very essence of all that was horrible and chaotic. Joachim Winckelmann, the discoverer of Greek art and the first to separate Greek from Roman sculpture, travelled over the Alps about 1760. He could not bear the frightening aspects of the deep ravines and the chaotic masses of \$t. Gotthard's granite blocks. He drew down the blinds of his carriage. He awaited the sweet forms of Italy. For Ruskin, the great educator of the middle of the nineteenth century, the mountains of Chamonix, which he so often sketched, were balm for his soul. He was imbued with the romantic spirit of his generation. The ships, the constructions, the iron bridges, and all industrial products of daily life were for him the worst enemies of feeling. Just as Winckelmann had done on the St. Gotthard, John Ruskin drew down the blinds before the industrialisation and potentialities of his time.

Today, new realms of feeling have been made conscious to us by the artist. We do not only perceive objects from a normal distance. We are accustomed to the bird'seye view, from which all normal distance is eliminated. Thus we have come to perceive new forms of Nature. So, for example, the bird's-eye view of the mouth of a river reveals unknown features. The artist is able to make them conscious to feeling. The bird's-eye view as well as microscopic enlargements undreamt of in earlier periods, give us new insight into Nature and its forms. In the same way as, after Winckelmann, the chaotic shapes of gorges and mountains began to be seen and to act as a type of beauty, so in our period, new insight into aspects of Nature which were formerly hidden to the human eye have now begun to reach our feeling. But this has not happened by themselves, but only when they have been byought into consciousness by a creative action which can draw them immediately into the emotional sphere. The mediator between us and the outer world, the man that bridges for us the gap between the inner and the outer reality is the artist.

MODERN DEVELOPMENTS

The three steps of architectural development are: functionalism, the expression of the 1920s; urbanism, developing in the 1930s; and now the problem of the expresion of a new form of social life based upon social intercourse. As we emerge from the present period of post-war adjustments, people will demand buildings to satisfy their emotional needs. They will want buildings to represent their social, ceremonial and community life; buildings that will be more than a functional fulfilment, that will express their aspirations for joy, for luxury and for excitement. Such buildings are needed to express the eternal need of the people to create symbols which reveal their inner life, their actions and their social conceptions.

We are all troubled with the present state of architecture. We know that architecture has to come in contact with the great public, with the common man, but the question is how to establish this contact and how to satisfy the needs of the common man. Should we, for instance, take his every wish for granted, or should we discriminate between flattering his own outward expression of his desires and the satisfaction of his inner requirements which may be unknown to him. I would wish to leave no doubt in your minds that I am completely opposed to accepting without criticism the flattery of the every instinct of the common man, good and bad. The flattery of his bad instincts is of course the easy way to overcome our present-day problem, but it is not the real way.

not the real way. This easy way out is seen most charmingly in the late developments of Swedish architecture. There are sometimes women who can commit every sin and will yet be pardoned, because they do it so nicely that it would be almost bad taste to measure them with a common yardstick. When the Swedes are designing architecture, we are very much in the same dilemma. Whenever they are making the same faux pas as the others do, they do it so charmingly that it is difficult to object. But historians, by their trade, are unfortunately brutal and, even if they would like to, they must not be seduced by a smile. When the Swedes built their town hall in Stockholm in the refined eclecticism in vogue about the beginning of this century it became the marvel of fashionable contemporaries. But how heavy was the same thing when done in Germany, for instance.

THE NEW EMPIRICISM

The discussion was taken up by an article in the Architectural Review in June, 1947, and again in January, 1948, by a young English architect, and the Swedish development was labelled the "New Empiricism." What is, however, this "New Empiricism."? I confess that I do not understand it, in spite of the following definition given in the Review of January, 1948:— "What are the characteristics of this se-

"What are the characteristics of this socalled New Empiricism? In general it is a reaction against a too rigid formalism.... The first excitement of structural experiment has gone and there is a return to workaday common sense. There is a feeling that buildings are made for the sake of human

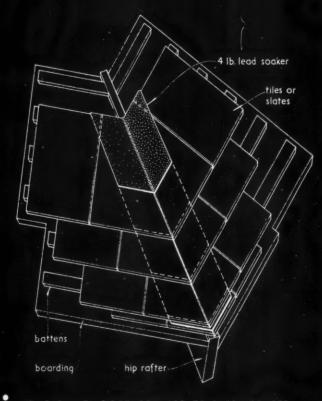




LEAD AND ALLOYS APPLICATIONS

10.G5 S

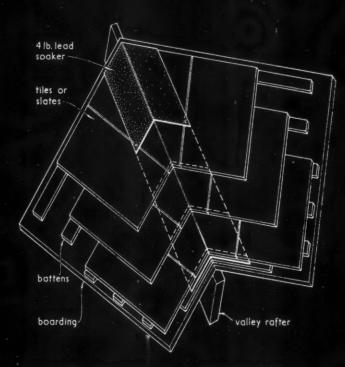
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HIP : PARALLEL-SIDED SOAKERS TO EVERY COURSE.

A lb lead soaker files or slates battens boarding hip rafter

HIP: SHAPED SOAKERS TO EVERY OTHER COURSE.



VALLEY : PARALLEL-SIDED SOAKERS TO EVERY COURSE.



hips and valleys: parallei-sided soakers to every course



hips: shaped soakers every other course

		Mary Ser						
roof pitch	30°	35°	40°	45°	50°	60°		
angle A (approx.)	49°	51°	53°	55°	57°	- 63°		
size B	tile gauge + lap + i"							

SETTING OUT OF SOAKERS.

LEAD SOAKERS TO MITRED TILED OR SLATED HIPS AND VALLEYS. Compiled from information supplied by The Lead Industries Development Council. Architects' Journal 26.8.48

10.G5 LEAD SOAKERS TO MITRED TILED OR SLATED HIPS AND VALLEYS

This Sheet illustrates and describes the use of lead soakers when forming mitred hips and valleys in plain-tiled or slated roofs.

Mitred Hips

With plain-tiles the hip tiles are cut from tile-and-ahalf, and with slates from wide slates, and close mitred.

Parallel-sided soakers to every course: The best method, as illustrated in the first_detail, is to fit a parallel-sided soaker to each course of tiles or slates. In this method the lead is not visible. Provided that the soaker is of adequate width it will be efficient; it is more economical in the use of lead than the shaped type.

No fixing is required except the dressing of the top edge of the lead over the top of the tiles or, in the case of slates, over the back of the batten.

Shaped soakers to every other course: In the second detail an alternative method is shown where soakers are fitted to every other course. Since the lower part of the soaker is visible the shaped soaker is in this case preferable to the parallel-sided type. As in the first detail the method of fixing is to dress the top edge of the lead over the top of the tile.

Traditionally lead soakers were cut either parallelsided or shaped irrespective of whether they were fitted to every course of tiles or slates or to every other course.

Mitred Valleys

Parallel-sided soakers to every course : Soakers for mitred valleys should be fitted to every course of tiles or slates. The procedure is similar to that given above for hips.

With low pitched roofs—30° and 35°—the width of the soaker should be increased (see note on face of Sheet) in order to give adequate protection during periods of excessive rainfall.

Weight of Lead

The weight of lead used for soakers is usually 4 lb. per sq. ft.

Further Information

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

Compiled from information supplied by :

The Lead Industries Development Council. Address : Eagle House, Jermyn Street, London, S.W.1. Telephone : Whitehall 7264 S Th IN T o te in Ir lo k π SI n b fc A ii i bc a p n a e 1 t t e a

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SERVICES AND EQUIPMENT TELECOMMUNICATIONS

The Architects' Journal Library of Information Sheets 96. Editor: Cotterell Butler, A.R.I.B.A.

INTERCOMMUNICATING AND AUTOMATIC INTERNAL TELEPHONE SYSTEMS

This Sheet is the second of a group describing types of telecommunication systems. It summarises characteristics of intercommunicating type and automatic installations.

Intercommunicating type installations (with or without loudspeaking master stations) are characterised by key or press button instruments connected by a multi-core cable between all instruments. They are suitable for compact installations in which the number of telephones which are initially and will be eventually required is both limited and can be foreseen within a certain permissible latitude.

Automatic installations are characterised by dial type instruments each connected to a central automatic switchboard by two wires. They are suitable for installations extending to any number of telephones both initially and ultimately. They offer a wide choice of special forms of telecommunication service and can be employed to unite widely separated premises (up to 20 miles or more) in one private automatic telephone service, *i.e.*, without operators or assistance from the Post Office system.

Intercommunicating Type Installations (see Sheet 37.H1 and supplement)

Master stations: These are key operated instruments embodying a sensitive transmitter and moving coil loudspeaker for received speech with separate telephone handset at the side of the instrument; the handset cuts out return loudspeech and thus ensures privacy. With the loudspeaker both hands are free on calls to and from the master station and the conversations are private—in the sense that the conversation cannot be broken into or overheard by another caller. The source of a call to a master instrument is indicated on the latter before the call is answered. Provision is also made for staff location and conference service.

Materials :—Polished walnut cabinet, keys and indicators carried on oxidised silver finish plates with blanks to suit capacity of instrument. Internal equipment is carried on a removable chassis to facilitate inspection and is provided with cable form to suit capacity of instrument.

Sub-stations: These are press button instruments for communication with one or more master or sub-stations, and are provided with handset telephones as well as with indicators to show when a call is being received from a master station.

Materials :—Black moulded plastic to standard dimensions with chassis equipped with press buttons to suit initial or ultimate size of installation.

Intercommunicating Instruments: These instruments are similar to the sub-station instruments referred to above, except that they are not suitable for operating with the master stations, and are not therefore provided with incoming call indicators. An installation consisting of these instruments is thus of a non-secret character and without loud speech at any of the points.

Standard Capacities: The above types of installations, *i.e.*, with or without loudspeaker master stations, can be provided for either 7, 11 or 17 instruments as a maximum with unrestricted communication

between all instruments. The capacity of instruments selected should provide for a marginal growth beyond initial requirements.

Automatic Installations (see Sheet 37.H1 and supplement)

Standardisation: All switches, relays, components, materials and finishes employed in the automatic switchboards dealt with here are identical with those employed by the British Post Office in their public automatic exchanges and are specially chosen from among these to suit the conditions of private automatic telephone service.

These conditions are special and contrast with public automatic exchange service in two principal respects. Private automatic exchanges are both small (comparatively speaking) and for the most part unattended—only the simplest and most reliable automatic devices should be and are chosen, such as are described in this series.

Automatic switchboards: These are manufactured in the following standard sizes :

(a) 25-line switchboards to serve a maximum of 24 telephones.

(b) 50-line switchboards to serve a maximum of 49 telephones.

(c) "Extensible" type switchboards which, beginning with any number of telephones in service, can be built up with partly or fully equipped 50-line units to a maximum of 400 lines using standard equipment or, by the inclusion of special units, to practically any number of lines that are likely to be required ultimately.

All the above types of switchboard are floor mounted and dimensions are given on Sheet 37.H1. The 25-line board stands against the wall with a 3-in. space taken up by brackets; the 50-line and extensible (which are totally enclosed), 1 ft. 9 in. and 2 ft. 6 in. clear of the wall respectively.

Power Supply: Any of the above three types of automatic switchboard, provided it is not ultimately to exceed 100 lines, can be operated direct off A.C. supply mains of any standard voltage by the use of a power unit; these are wall mounted and the dimensions are given on Sheet 37.H1.

The power taken from the mains for an automatic telephone system is negligible, being about 120 units a year per 50 lines in service.

Batteries: Where it is desirable to use these and the supply is A.C. a single battery of accumulators with a special self-regulating charging unit can be supplied. Where the supply is D.C. two batteries are provided with suitable change-over switch gear.

Standard Automatic Instruments: Types as used by the British Post Office, are employed in these installations, along with certain special types of service which are described later in this series.

Special Services: By means of automatic telephone installations any of the different types of switchboard referred to above can provide any or all of the following additional services which may be included in the first instance or added later without interference with the service.

Staff location: This is for locating particular people when temporarily absent from their customary

37.H2 INTERCOMMUNICATING AND AUTOMATIC INTERNAL TELEPHONE SYSTEMS

posts. The signals, which may be of an audible or visible character, can be originated and answered from any telephone on the system, or alternatively, they may be sent out from some central point at the request of any calling station. This subject is dealt with more fully on Sheet 37.H3.

Loudspeaking master station: This is a special instrument for the use of executives, having the same general appearance and giving a similar type of service as the loudspeaking master station on an intercommunicating type installation. The master station is unrestricted in use, i.e., it can be used as a loudspeaker for intercommunication with other loudspeaking master stations and other telephones on an installation and also to instruments on a remote installation connected by tie-line and comprised within the same private automatic system. The instrument also provides for key operation when calling a selection (up to 20 in number) of the other instruments on the system. A dial is also fitted for calling the remaining instruments, while retaining the loudspeaker facility on all calls. Switches are provided for controlling at will the level of received speech from the loudspeakers, as well as for suppressing conversation which it is not desirable to transmit. A handset for optional use cuts out the loudspeaker altogether.

Loudspeaker station: The type of instrument resembles the loudspeaker master station described above in all respects except that key operation is not provided for and all calls are made with the dial.

Priority Calling: Certain stations can, if desired, connect to telephones already engaged so as to avoid delay.

Secretarial or filter service : Any variation of this type of service can be provided as between an executive's instrument and that of his secretary.

Special ringing : Principals may ring the bell of the wanted station in a distinguishing manner to obtain a quick reply.

Tie Line service : Installations in two or more remote premises may be united in one automatic installation by means of one or more tie lines—each consisting of a single pair of wires—connecting the premises. These lines are usually rented from the Post Office.

Wiring materials and methods : The wiring of automatic telephone systems is carried out in multi-core twin cables, usually enclosed within a lead sheath, although other equivalent materials for the covering are now coming into use. These cables vary in standard size from 50 pairs (approx. 7 in. outside diameter) down to 2 pairs (approx. 1 in. outside diameter). The cables start from a main distribution case or frame fitted in proximity to the automatic switchboard and are terminated by distribution boxes in the recesses adjacent to the vertical and horizontal runs. From these distribution boxes, cables of the same or smaller size continue the distribution in tapering fashion to other distribution boxes similarly located in other parts of the building. Separate twin conductors start from each of the most conveniently situated distribution boxes, and are terminated upon the connection strips of the individual telephone instruments.

The principal point to be safeguarded is that the multicore cable and the distribution boxes carry sufficient spares so that additional instruments may be connected to rather more than the anticipated maximum capacity of the system, without having to run additional multi-core cables. The provision of this latitude caters for possible unequal growth of the system in different parts of the buildings.

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" Man some beings rather than for the cold logic of theory. . . . In domestic work cosiness is coming back. Buildings are married carefully to the site and to the landscape. . . . The New Empiricism is the attempt to be more objective than the functionalists, and to bring back another science—that of psychology—into the picture. . . Why, they ask, make windows larger than necessary just to show that we can create a wall enurely of glass? Why flat roofs when they always start to leak in the spring? . . . Why eschew fantasy and decoration for which, in our hearts, we long?"

This pseudo-idyllic conception is a harkback to the art decoratif of about 1907, when it is true that the charming Dresden and Viennese werkstätte had an important role to play in clearing the ground. But the decisive step was taken by the optical revolution of 1910 which does not exist for the new advocates of "cosiness." What they propose as the "New Empiricism" is a "New Escapeism" which is as much a cul-de-sac as the Stockholm town hall or as the "New Classicism" of the 'twenties which was so charming, but had no consituent force.

As I have said, as far as I know this idea of the New Empiricism made its first appearance in the June, 1947, issue of the *Architectural Review*. The pivotal sentence of that article appeared to be the following: "Functionalism then, the only real zsthetic faith to which modern architects could lay claim in the inter-war years, is now, if not repudiated, certainly called into question; not by its opponents, but by those who were formerly among its most illustious supporters."

The discussion was then taken up by Lewis Mumford, who quoted this sentence in an article he wrote for the New Yorker of October, 1947, and proposed another term for the same trend, "The Bay Region Style":---"I look," he said, "for the continued spread, to part of the country, of that native and humane form of modernism one might call the Bay Region style, a free yet unobtrusive expression of the terrain, the climate, and the way of life on the Coast."

MARCEL BREUER

The Museum of Modern Art sent this article to a number of people for their reactions, and then arranged a symposium in the Museum in February, 1948, which was pretty fully reported in their spring bulletin. Many important architects and others took part-in this discussion, but I would just quote Marcel Breuer's short statement as it appeared in the Museum's bulletin and provides a reply to many of the points raised in all discussions of the situation:—

"I don't feel too much impulse to set 'human' (in the best sense of the word) against 'formal.' If 'human' is considered identical with red-wood all over the place, or if it is considered identical with imperfection and imprecision, I am against it, also, if it is considered identical, with camouflaging architecture with planting, with Nature, with romantic subsidies. "If International Style is considered identi-

"If International Style is considered identical with mechanical and impersonal rigorism, down with International Style. Anyway, the word is an unhappy one, just as unhappy as 'functionalism." However, all this controversy was in order. I am afraid, about twenty-five years ago. Since then, many things have happened. For instance, just as Sullivan did not eat his functionalism as hot as he cooked it, Le Corbusier did not build his machine for living! His houses are much less machines for living than, for instance, the three thousand family housing developments of the West Coast, the same pseudo-prefabricated houses, hill up, hill down, in rigid rows or in rigid curves though quite redwoody.

"Many things happened, as I see it, which some prefer not to see, because they want

to prove or, better, to create, a fifty-yearold original, native and modern California style full of humanity. 'Human' seems to me more than just a pleasant forgiving of imperfection and an easy-goingness as to precision of thinking, as to the quality of planning, as to consequences of materials, details and construction.

details and construction. "God knows, I am all for informal living and for architecture in support of and as background for this, but we won't sidestep the instinct towards achievement—a human instinct indeed. The most contrasting elements of our nature should be brought to happiness at the same time, in the same work, and in the most definite way. The drive toward experiment is there, together with and in contrast to the warm joy of security at the fireplace. The crystallic quality of an unbroken white, flat slab is there, together with and in contrast to the rough, texture-y quality of natural wood or broken stone. The perfection of construction and detail is there, together with and in contrast to simplicity, broadmindedness of form and use. The courage of conception is there, together with and in contrast to humble responsibility towards the client. The sensation of man-made space geometry and architecture is there, together with and in contrast to organic corms of Nature and of man. Sol y sombra, as the Spanish say; sun and shadow, not sun or shadow."

THE PRESENT SITUATION

present architectural situation is The strongly realised by the CIAM itself. Thanks to the proposal of the MARS group in England, the CIAM Congress at Bridgewater last autumn, took up the question of the current æsthetic problems. I confess this was not done without the resistance of a large part of the Congress which believed that we would lose our foothold the moment we entered the sphere of the emotions. It is often said that æsthetic values are not suited for theoretical or for public dis-cussion. But already 20 years ago Alfred North Whitehead, the great scientist and far-sighted philosopher, showed us the fal-lacy of the opinion that æsthetic values range only within the personal and private sphere. Herbert Read in one of his essays has stressed Whitehead's argument that this erroneous belief has to be traced back to Descartes. He it was who first divorced science from philosophy. Up till then, philosophy had taken charge of the cogitating mind, and science took charge of the materialistic nature. After the divorce came the beginning of one-sided rationalism. This split the world in two: On the one hand, the cogitating mind; on the other independent matter. The cogitating mind which only recognises

personal experiences, as in the case of Descartes, becomes restricted to a private world of morals and ethical values, and, as Whitehead stresses, also a private world of all asthetic values. Modern science does not recognise any more this split between ob-jects independent of the mind, and of the mind independent of objects. This split is incompatible with the whole conception of modern physics, where the object of the experiment and the subject of the experiment are regarded as interdependent. The whole question can no longer be restricted to purely architectural criticism. No "New Empiricism" no "cosiness" can lead us anywhere, we must go back to fundamentals. The means available are to interpret the optical possibilities opened up to us since 1910 and to develop an architecture for the new type of universal man who has to arise if our civilisation is not to fall into ruin.

[A second meeting sponsored by, the MARS Group and the Institute of Contemporary Arts has been arranged for 6 p.m. on August 31 in the Lecture Theatre of the Victoria and Albert Museum, when Professor Giedion will lead a discussion on

the themes arising from this lecture. See Diary.]

SSYDSAS

Election of Officers and Annual Report

The following officers of the Sheffield, South Yorkshire and District Society of Architects and Surveyors have been elected:— President: C. S. Sandford, F.S.I.; Vice President: Professor S. Welsh, F.R.I.B.A.; Hon, Treasurer: J. Mansell Jenkinson, F.R.I.B.A.; Hon Secretary: H. B. S. Gibbs, F.R.I.B.A.

F.R.I.B.A.
The following members of the Council were elected: — Fellows: E. G. Buck, A.R.I.B.A.; J. W. Davidson, A.R.I.B.A.; A. P. Holdsworth, F.S.I.; A. M. Lusby, A.R.I.B.A.; S. E. Shepherd, F.S.I.; J. C. P. Toothill, F.R.I.B.A. Associates: W. L. Clunie; J. McD. Fairweather, A.R.I.B.A.; S. E. Minns, A.R.I.B.A. District Members: Chesterfield: E. G. Kington, L.R.I.B.A.; Rotherham: D. B. Jenkinson, F.R.I.B.A.

The Council of the Society have submitted the following statement, being the sixtieth Annual Report of the Society:—

The Membership of the Society is now 134 as compared with 142 last year. The Council much regrets to have to record the death of Sir H. K. Stephenson, Bt., D.S.O., LL.D., J.P., who was elected an Honorary Member of the Society in 1930, and who for many years had given his support on the University Council to the Department of Architecture and had shown by his foundation of the Sir H. K. Stephenson Fellowship in Architecture at Sheffield University his real interest in the Art of Architecture.

Four lectures have been given during the past session, the first on November 18, when Mr. Hubert Bennett (F), Architect to the West Riding County Council, gave a lecture on "School Planning and Design," dealing with the subject from the most modern standpoint. On December 11, Mr. J. M. M. Jenkinson read a very interesting paper on "Recent Trends in American Hospital Design," based on his visits to modern hospitals during a recent visit to America. In February, 1948, Mr. L. Sylvester Sullivan gave a most interesting and humorous paper on his own personal experiences as an architect, entitled "The Dark Cottage of Memory." The last meeting of the Session was held on March 12, when Mr. R. A. H. Livett, O.B.E., A.R.I.B.A., City Architect of Leeds, read a paper on "Housing." Two very interesting lectures to which members of the Society were invited were given by Mr. R. E. Megarry, barrister-at-law, on the Town and Country Planning Act of 1947, under the auspices of the Sheffield and District Incorporated Law Society.

A number of books on varied subjects have been presented to the Society during the year by the RIBA and have been incorporated in the Society's Library at the University. Mr. Stephen Welsh, F.R.I.B.A., Past President, was elected Chairman of the Yorkshire Technical Liaison Committee for the 1947/48 session. The congratulations of the Council are due to Mr. S. Welsh on his appointment as Professor and the consequent establishment of a chair in Architecture. During the session an interesting course of twelve University Extension lectures dealing with various aspects of Town Planning, including the proposals in regard to the Sheffield plan were given at the University and attended by a number of local architects and surveyors. 208] THE ARCHITECTS' JOURNAL for August 26, 1948

INFORMATION CENTRE INFORMATION SHEETS . OUESTIONS AND ANSWERS · CURRENT TECHNIOUE THE INDUSTRY · PRICES · TECHNICAL ARTICLES

TECHNICAL SECTION

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

INFORMATION CENTRE

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

This is the last of three issues to be devoted to the inclusion, in brief, of Information Centre items previously omitted owing to shortage of space.

22.19 sound insulation and acoustics **EFFECT OF ATMOSPHERE ON SOUND**

The Propagation of Sound in the Atmos-phere. V. O. Kundsen. (J. Acoustical phere. V. O. Kundsen. (J. Soc. America, July, 1946, p. 90.) Acoustical Sound reduction in different kinds of atmosphere. Specialised paper.

22.20 sound insulation and acoustics **ACOUSTICS: CONCERT HALLS**

Improving Acoustics at Covent Garden. B. Frankel and F. Goldsmith. (Architect and Building News, Nov., 1946, p. 73.) Short descriptive note and illustration of stage screens.

22.21 sound insulation and acoustics MUSIC IN INDUSTRY

Music in Industry To-day. R. L. Cardinell and H. Burris-Meyer. (J. Acoustical Soc. of America, July, 1947, p. 547.)

Misconceptions about music in industry; principles and purpose. Moderate interest.

22.22 sound insulation and acoustics MUSIC IN HOSPITALS

Music as an Aid to Healing. R. C. Lewis, H. Burris-Meyer and R. L. Cardinell. (J. Acoustical Society of America, July, 1947, p. 544.)

Causes of increasing use of music, examples of use and results; suggestions for development. Moderately useful and instructive note.

23.68 heating and ventilation PIPE CORROSION

Note on the Inhibition of the Corrosion of Pipework. A. F. Dufton. (J. of Heating and Ventilating Engineers, Oct., 1946: Vol. 14, p. 238.)

Failure of circulating pipes in heating laboratory at B.R.S. due to external corro-Careful investigation of possible sion. causes showed (a) granulated cork in which pipes embedded had become impregnated with brine from initial leak, (b) possibility of corrosion by flow of stray electric currents to earth. Account of remedial measures. 6 illustrations.

23.69 heating and ventilation DOMESTIC FUEL POLICY

Memorandum on the Report of the Fuel and Power Advisory Council on Domestic Fuel Policy. (The Electrical Supply Industry. Nov., 1946.)

Short report of a Committee of Electrical Supply Industry stating objections to the "Simon" report on Domestic Fuel Policy, 16 pp.

23.70 heating and ventilation **CONFERENCE ON HEATING**

Modern Heating and the Architect. Re-port of the Architects' Section of the Con-ference "Fuel and the Future." (JRIBA, Nov., 1946, concluded Dec., 1946.)

Papers and discussions reported in full include general review of fuel position, domestic heat requirements, domestic fuel policy, new appliances and architectural design, insulation of buildings, district heating, general conclusions. In all a comprehensive treatment, mainly of domestic heating.

23.71 heating and ventilation BOILER DE-SCALING

The Chemical De-scaling of Boilers. R. H. Burns. (J. Inst. of Heating and Ventilating Engineers, Jan./Feb., 1947.)

Detailed paper on requirements, trials, methods and practical results, and some comparisons with more normal method of descaling mechanically. Indirect interest only to architects, but a full and authoritative paper with considerable subsequent discussion.

23.72 heating and ventilation DOMESTIC HEATING : ELECTRICITY

Experiences with Electric Space Heating in the Home. R. W. Gregory. (J. Inst. of Heating and Ventilating Engineers, Jan.) Feb., 1947.)

Descriptions of practical experiences of author in own home. Method used Records of conditions and electrical consumption.

23.73 heating and ventilation MICROCLIMATOLOGY

Microclimatology. (Arch, Forum. [USA], March, 1947.)

Study of climatic variations within small land areas. Interesting and valuable assistance to planners. Illustrated.

23.74 heating and ventilation **COMFORT CONDITIONS**

Environmental Warmth and its Measur-ment. T. Bedford. (Heating and Venilat-ing Engineer and J. of Air Conditioning, pp. 148-168, Oct., 1947.)

Reproduced from Medical Research Council War Memorandum No. 17, this paper deals first with fundamental factors affecting comfort, second with instruments for making measurements, and third with effect of erect, l comfort conditions on work output Although originally intended for naval per-Scaffold sonnel, is of general interest to architects and special interest in connection with fac tories where difficult heating condition apply.

23.75 heating and ventilation DATA BOOKS

(1) Hot Water Engineers' Pocket Book. (2) Heating and Ventilating Engineers' Pocket Book, A. C. Pallot, (George Newne, Ltd. 1948. 5s. each.)

Size 5 in. × 3 in. × ‡ in., these pocket books contain a mass of data useful as everyday reference to heating engineers but also of considerable value for architects reference. In addition to tabulated data there are pipe lay-out and other diagram and a considerable amount of general information on heating and hot-water installations. Hot water includes special section on gas and electric systems.

24.79 lighting

COLOUR IN BUILDINGS

Colour in Buildings. W. Allen. (JRIBA May, 1946.)

Light colourings; multi-colourings; utilitarian use of colour. Provocative general discussion on colour usage. Informative Illustrated.

24.80 lighting

ARTIFICIAL LIGHTING: CAFETERIA

Boeing Aircraft Company Cafeteria. B. A. Tranis. (Illum. Engineering [USA], July, 1946, p. 561.) Two

Description of lighting installation. illustrations and two diagrams.

24.81 lighting

BASIS OF DAYLIGHT COMPUTATION

The Basis of Daylighting Calculation W. A. Allen. (Trans. Ilum. Eng. Soc. (Lon don). Sept., 1946, p. 205.)

Daylight surveys, three methods of com puting daylight factors, and quality of light ing. Illustrated. Useful reference.









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TIMBER

-Old and New



Above. Sycamore panelling with marquetry decoration by George Ramon, in the cocktail bar of the Queen Elizabeth. Courtesy Cumard-White Star Ltd. Left. Figurehead of H.M.S. Prince, from a model in the Science Museum. Crown Copyright.

When H.M.S. Prince was launched in Charles II's reign the ship-builder's timbers were still English Oak for the hull, Baltic Pine for masts and spars and decks.

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24.82 lighting

CLASSROOM FENESTRATION

The Daylighting of Classrooms Under the New Regulations. W. Allen and J. B. Bickerdike. (JRIBA, Sept., 1946.)

The new standards; rooms lighted from one side, from two sides and from sides and top; treatment of existing classrooms; daylight survey technique. Objective note of direct value to school designers. Illustrated.

24.83 lighting PORTABLE LIGHT FITTINGS

Correlating Portable Lamp Design with the Society's Performance Recommendations. R. G. Slaver and L. L. Sutro. (Illum. Eng. [USA], Mar., 1947, p. 377).

Instructive study of portable lamp design. Interesting, illustrated.

24.84 lighting

DISTRIBUTION OF LIGHT

A Simple Criterion for Quality in Lighting. P. Moon and D. E. Spencer. (Illum. Eng., [USA], Mar., 1947, p. 325.)

Formal mathematical analysis of brightness distribution, with interesting practical examples. Useful paper, but difficult to read. Illustrated.

24.85 lighting

DISTRIBUTION OF LIGHT

Light for Living. H. L. Logan. (Illum. Eng. [USA], Mar., 1947, p. 291.)

Study of light distribution outdoors; application to indoor problems. Interesting and good. Illustrated, photos and graphs.

24.86 lighting

FLUORESCENT LAMPS: INTERFER-ENCE

A Preliminary Study of Radio Interference as Caused by Fluorescent Lamps in the Home, L. F. Shorey and S. M. Gray, (Illum., Eng. [USA], Mar., 1947, p. 365.)

Causes and cure of radio interference from fluorescent lamps. Specialist note.

24.87 lighting DAYLIGHT AND TOWN PLANNING

A Form of Control of Building Develop-ment in Terms of Daylighting. W. Allen and D. Crompton. (JRIBA, Aug., 1947, p. 491.)

General principles, methods of computation and assumptions for study; the desired shape of the skyline; the proposed form of control; some examples of its application; a new indicator for office use; general significance of the ideas in practice. Interesting and important. Illustrated, 16 figures and graphs.

24.88 lighting LIGHTING OF EXISTING SCHOOLS

School Lighting Appraisal and Recommend-ation Procedure Developed from Survey. C. T. Tray. (Illum. Eng. [USA], Sept., 1947, p. 793.)

Technique of surveying existing schools to improve visual conditions. Excellent article for school architects. Illustrated, 6 photographs.

24.89 lighting STREET SIGNS

The Brightness and Legibility at Night of Road Fraffic Signs. By J. S. Smyth. (Trans.

LE.S., Vol. 12, No. 4, 1947.)

Brightness requirements; effects of glare and dirt.

24.90 lighting

GENERATING STATION

Lighting of a Modern Generating Station. A. A. Brainerd and G. C. Salnev (Illum. Eng. [USA], Feb., 1948. p. 135.)

Combined mercury and incandescent lighting; special use of glass blocks; cold cathode fluorescent. Interesting and useful, illustrated photographs and diagrams.

24.91 lighting

BRIGHTNESS ENGINEERING

Correlation of Brightness Ratios and Decoration. W. H. Kahler and J. A. Meacham. (Illum. Eng. [USA], Feb., 1948, p. 175.)

Decoration with 3:1 ratios in brightness; colour "power" and other psychological effects; colours for equipment. Useful and interesting.

24.92 lighting SCHOOL LIGHTING

Daylight is Bright Enough Everywhere if We are, C. D. Gibson. Arch. Record (U.S.A.), Mar., 1948, p. 125.)

An elementary review of ideas on school planning and daylighting; schools described and illustrated. Useful.

25.56 water supply and sanitation WATER TAPS : NEW DESIGNS

New Water Taps. (The Plumbing Trade Journal, Feb., 1947. Vol. 26, p. 36.) Short article, describing new types of tap

(a) with non-turning washer to prevent wear and (b) Twin-seal tap based on fluid sealing principle. Both stated as approved by water authorities. Manufacturers' names given. 2 diagrams.

25.57 water supply and sanitation INDUSTRIAL WASTE TREATMENT

Miniature Industrial Waste Treatment Plant. R. F. Weston. (Water and Sewage Works' [USA], Mar., 1947. Vol. 94, p. 111.)

Use of chemical detergents for car washing rendered waste waters from washing plants toxic to fish, caused severe visual and odorous pollution of streams. Description of successful treatment plant evolved to deal with flows as small as 5 gallons per minute, using chemical coagulation.

25.58 water supply and sanitation

PLUMBING: OFFICIAL RESTRICTIONS Ministry of Health: Circular 132/47. (July 31, 1947, HMSO.)

To all local authorities, drawing attention to Ministry of Works Economy Memorandum-Lead No. 3. Insists on use of lightgauge copper tube to B.S. 659:1944 for housing work, also copper cylinders to B.S. 699:1944. Attached note lists sizes of copper tube deemed adequate for water services in normal housing work.

26.31 services and equipment : miscellaneous BROADCAST RECEPTION

Broadcast Reception: Sound and Tele-vision by Radio. Draft BS C. of P. 327.201: 1948. (British Standards Institution, 5s.)

TECHNICAL SECTION

Requirements for good reception and television including use of communal aerials. Diagrams.

28.6 miscellaneous MUNSELL COLOUR SYSTEM

The Munsell Colour System. D. Nickerson. (Illum. Eng. [USA], July, 1946, p. 549.) The nature, advantages and disadvantages of the Munsell Colour System. Clear and comprehensive.

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

OUESTIONS AND ANSWERS

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Q I recently purchased a piece of land of about 13 acres which 1 under-stood was scheduled for building. I made application to the Local Authority for permission to erect six houses but this was refused as only one house to 5 acres would be allowed. I then asked permission to erect one house but this was refused so I appealed, my appeal being turned down on the following grounds:— 1. No water supply (nearest supply about

100 yards away);

2. Ground low lying;

3. No proper road access;

4. No sewer at hand. An appeal was then made to the Ministry of Health, London. This was referred to the local office of the Ministry, who replied that it was a matter for the Local Authority and who were not in this instance prepared to agree to a building on this site, and that an alternate site which conforms to planning requirements be found.

Can I now appeal to any other Ministry or do you think my wisest course would be to follow the Ministry's suggestion? I have been told that if I turn it into a smallholding I would obtain permission.

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A The refusal of the Local Authority having regard to the grounds of the refusal, appears to be given under Town Planning Powers. In such cases there is an appeal to the Minister of Town and Country Planning. If there is no operative Planning Scheme in existence, then the Planning Authority have refused under an Interim Development Application, and if the refusal is in writing an appeal may be made to the Minister within 28 days of the notice of Minister within 28 days of the nonce of the decision, or such longer period as the Minister may allow. (See section 10 (5) of the Town and Country Planning Act, 1932.) If the time for appeal has expired an application could be made to the Minister

application could be made to the Minister to extend the time. The provision under section 12 of the 1932 Act relating to agricultural buildings has been repealed by section 41 of the Town and Country Planning Act, 1944, but it may be open to the Planning Authority to consider such an application. This would presumably depend on the Development Plan which will have to be made under the 1947 Town Planning Act which comes into force on July 1 next, when the 1932, 1943 and parts of the 1944 Planning Acts will be repealed.

[209

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THE INDUSTRY

AUMINIUM CORED PLASTICS

Mention was recently made in these notes to the various grades of Formica, and their decorative uses. Now Bakelite have amounced a new aluminium cored grade of Warerite, sheet which has two very considerable advantages. First of all it becomes possible to bend the sheets to comparatively small radii so that its range of applications to interior decoration is widened, and it also becomes possible to build up domestic fittings such as draining boards and sink units. The other major advantage is that the material is capable of withstanding the non-inflammability test as laid down in Section 7 of BSS 476. This test is fairly severe, and requires 6 in square specimens to be subjected to a standard flame impinging at an angle of 45°. Normal phenolic veneers and panels will not stand up to this test, but both phenolic and urea faced aluminium cored panels are classified as non-inflammable.

The new material has a core either of pure aluminium or an alloy, the Warerite facing being applied to one or both sides. While its technically possible to use any thickness of core, it has been decided for production purposes to concentrate on two standard thicknesses, 14 and 20 gauge (0.08 and 0.036 in).

The pure aluminium (20 gauge) has a facing on each side of 0.02-in. phenolic laminate, so that the total thickness is 0.076 in., the decorative surface being black or any standard dark colour, wood grain or pattern. The woft pure aluminium allows the sheet to be readily bent or formed, and the resultant shapes show less tendency to revert to the original flat than do sections in ordinary grades of paper laminate.

It should be noted that the Warerite sheets are the normal thermo-setting types, and not one of the post-forming grades, thermoetting sheets in these thicknesses being fixible enough to bend to quite a small adjus without cracking or splitting.

Application has been made for a patent to cover the technique of producing this aluminium cored material which is, of course, quite distinct from the heat resistant Warenie material produced for bar tops and table tops with the object of enabling them to withstand contact with burning cigarettes. These earlier blisterproof grades incorporate a layer of aluminium foil immediately below the surface sheet, the object of which is to conduct the heat away rapidly enough to prevent a local temperature rise at the point of contact with a cigarette which might otherwise be capable of raising a blister.

In the new Warerite sheet the aluminium core conducts the heat away fast enough to prevent any blistering or charring. Readers may remember the furniture designed for Heal and Son by Mr. Clive Latimer, in which a wood veneer is cemented to an aluminium core. Here again the rapid heat conduction of the core provided a cigarette resistant finish even to a comparatively inflammable wood veneer.

Although the degree of non-inflammability of the new material is of outstanding importance for the decorative treatment of ships, trains and aircraft, there are other technical advantages of comparable importance for normal decorative use. There is, for instance,

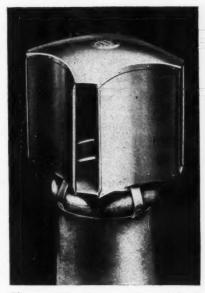
a considerable increase in stability; with normal laminates there may, under conditions of varying humidity, be a tendency to buckle between fixing points. Tests have been carried out on the new metal cored material which show no bowing after several weeks' immersion in water.

One further point of interest to the designer is that unusual decorative effects can be obtained by machining away the plastic facing, thus revealing the metal core. This aspect offers useful possibilities for obtaining unusual decorative effects without the complications attendant upon introducing two independent types of material. A typical treatment is shown in the photograph.

ment is shown in the photograph. For production purposes, it has obviously been necessary to concentrate on two standard thicknesses of cored material, but this is a limitation of production economics and not of technical practicability. Any thickness of core can, in fact, be employed and assuming sufficient quantities are required and the cores can be provided in the required dimensions, it is possible for the new material to be manufactured utilizing aluminium core materials supplied by customers. So far the sheets are made in sizes up to 8 ft. by 4 ft., and the price is slightly more than the other Warerite grades. (Warerite, Ltd., Ware, Herts.)

SMOKY CHIMNEYS

The illustration on this page shows the latest improved version of the Colt chimney cowl. No increase in efficiency is claimed, nor would this seem to be necessary, the cowl having been sold for many years on a "No Cure—No Pay" basis, users being given a month to make up their minds whether they want their money back or not. The new cowl is, however, smaller and less conspicuous when fitted, and an improved protective treatment gives a longer life. Fixing is quite easy, the photograph showing the clips which fit over the rim of the pot, while there is also a sleeve fitting inside the pot to give greater stability. There are, incidentally, no moving parts or rotating heads in the cowl, its efficiency depending on the curved external surfaces which produce an up draught in the chimney irrespective of the angle at which



The new Colt chimney cowl. Fixing is by clips fitting over the rim of the chimney pot. There is also a sleeve fitting inside the pot to give greater stability.

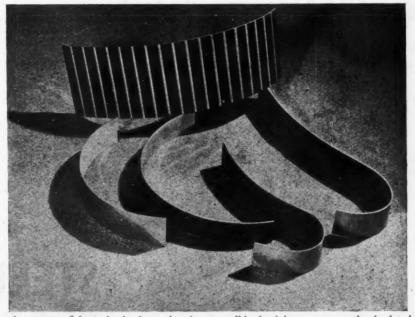
the wind strikes them.

The cowl is made in sizes to suit all chimney pots and sells at 48s. 6d., while a smaller size for cast iron or asbestos cement flue pipes up to 5 in. internal diameter costs 27s. (W. H. Colt (London), Ltd., Surbiton, Surrey.)

ANODISING ALUMINIUM

ADA have just issued a very complete information bulletin (No. 14) on the anodising of aluminium and its alloys.

The introduction starts with a brief historical note and continues/with an account of the mechanism of the formation of the anodic film. The effect of alloying elements on the



A new type of decorative laminate, based on a solid aluminium core, recently developed by Bakelite Ltd. One of the important advantages of this new plastic material is that it can readily be formed to small radius curves. By machining away the plastic facing and exposing the aluminium core, unusual decorative effects can be obtained.

TECHNICAL SECTION

212] TECHNICAL SECTION

current density and appearance of the film is then described and there is a paragraph on the special problems of anodising of castings. The next section describes procedures such as preparation, racking of articles, sealing and cleaning the anodic film which are common to all anodising processes. The three main processes (chromic acid, sulphuric acid and oxalic acid processes) are first compared and then the plant required; operating conditions and appearance of the film produced are separately described. There is a considerable section on the

There is a considerable section on the special subject of the dyeing of anodised aluminium which deals with the suitability of films for dyeing, compares the results achieved on films produced by the three main processes and then describes dyeing procedure, including information concerning available dyestuffs.

Other sub-sections describe dyeing with inorganic salts, the production of special effects including multicolour effects, direct printing and photographic processes. The main text of the publication is concluded with two sections, one on the general characteristics of anodic films and the other describing the process of electrolytic brightening which has, as a typical application, the production of searchlight reflectors in super purity aluminium electrolytically brightened and anodised.

Various appendices contain data which is of greater interest to the manufacturer than the architect, but it is useful to have the complete story rather than a potted version which so often omits the essential information. (*The Aluminium Development Association*, 33, Grosvenor Street, London, W.1.)

Buildings Illustrated Building at Dagenham (pages 203-205).—Architect Edward D. Mills.

THE ARCHITECTS' JOURNAL for August 26, 1948

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Hotel at Lancaster Gate (pages 199-202)-Designed by John Carter, assisted by A. W. Skeels. Consultants, Hammett & Norton. Surveyors, Irving Todd. General Contractors, Heal's Contracts, Ltd. Sub-contractors: Asphalt, Neuchatel; Concrete screen and lay lights, Kings; Tiles, Camden Tile Co.; Glass, Preedy & Henderson & Son; Woodblock flooring, Everwear; Central heating, Rosser & Russell; Electric wiring, Cash & Co.; Ventilation, Nye & Langsten; Sanitary fittings, Boldings; Door furniture, Beardmore; Sunblinds, Avery; Metalwork, Goosey & Beardmore; Wallpapers, Lines, Sanderson; Flowers for boxes, Ditton Hill Nurseries; Clocks, Temco. The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.I, and the advertisers listed will be asked to supply information direct.

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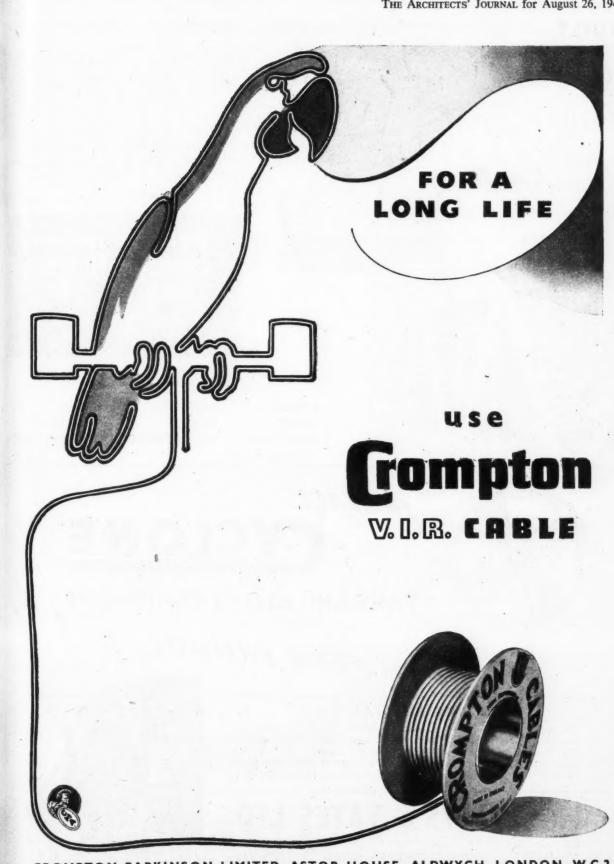


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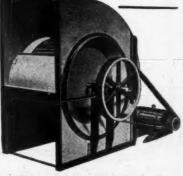
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NOVEMBER 9th-18th 1948

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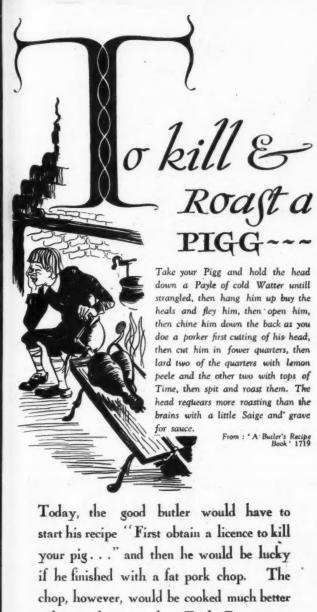
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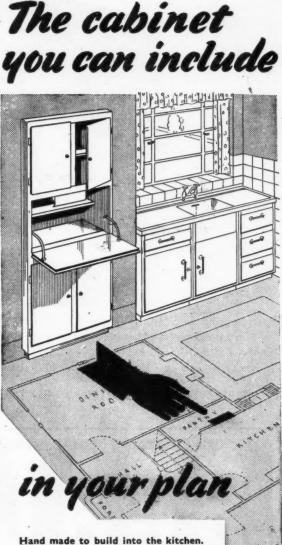
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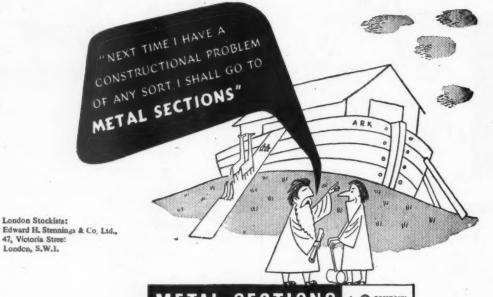
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The moment the fingers leave the press-cap of the Prestex non-concussive, self-closing tap, the water ceases to flow, not a wasteful trickle remains through neglect to turn off the tap securely. In thousands of factories, institutions, schools, hospitals, offices and ships, Prestex taps with this completely automatic action are saving large quantities of hot and cold water daily. They are thus protecting our precious coal reserves.



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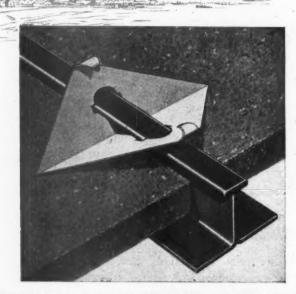
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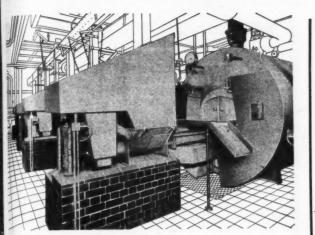
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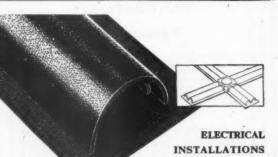


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When it's a question of panelling the answer is Masonite, the allwood-fibre hardboard which combines superlative strength with beauty of texture and surface.

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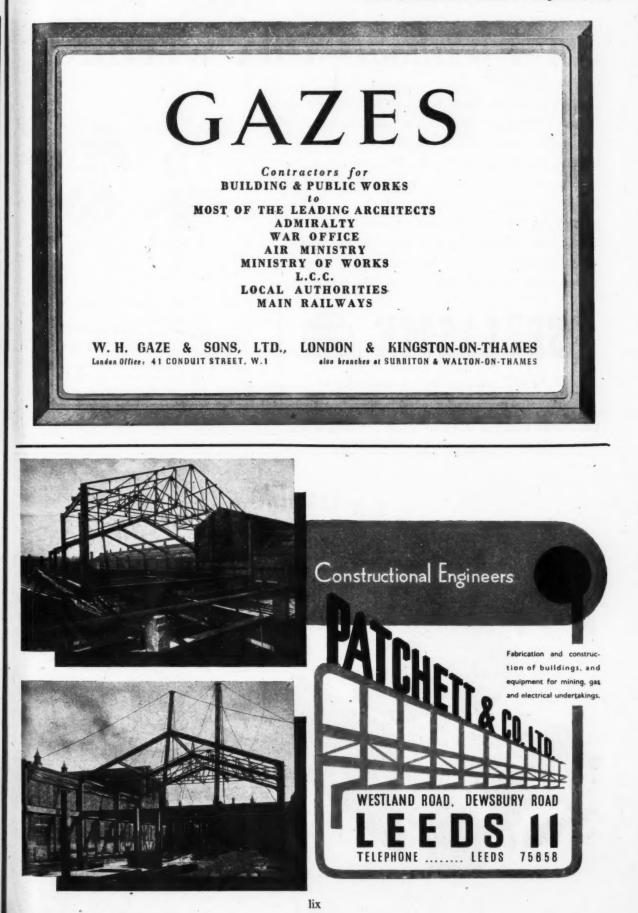
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It's not the rain that lashes the window-pane that does the damage, but the trickle that seeps inside between the frame and the masonry. This joint is normally filled with mortar which succumbs to movement from heat and cold and vibration, leaving a dangerous gap. The result: Corroded frames, damaged interiors and damp rooms. "Seelastik" solves the problem. Applied to the offending joint, by means of the Expandite (British made) Caulking Gun, it provides a seal impervious to heavy downpour, tropic heat or arctic cold. Vibration will not damage it for "Seelastik" retains its elasticity permanently.





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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advi. Manager. "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by Krst post on Friday morning for inclusion in the following Thursday's

saper. Beplies to Box Numbers should be addressed care of "The Architects' Journal," at the address

care of "The Srchitects' Journal," at the address sign above. None of the vacancies in these columns relater to a man between the age of 18 and 50, inclusive or a woman between the age of 18 and 40 inclusive, unless he or she is excepted from the groupsions of the Control of Engagement Order, [44], or the vacancy is for employment excepted from the provisions of that Order.

Public and Official Announcements i lines or under, 108.; each additonal line, 1s. 6d. THE INCOMPARTS ASSOCIATION OF ARCHITECTS AND THE INCOMPARTS ASSOCIATION OF ARCHITECTS AND SURVYORS maintains a registor of qualified architects and surveyors (including assistants) re-quiring posts, and invites applications from public authorities and private practitioners having staff acancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHYTELEAPE. Tel; Uplands 0935. 991

LONDON COUNTY COUNCIL. FOUSING AND VALUATION DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applica-tions are invited for positions of Architectural Assistant, at ealaries of up to 2580 a year. Com-mencing saaries will be determined according to qualifications and experience, and qualified candi-dates will be eligible for appointment to the per-manent staff of the Department on the occurrence of vacancies. Engagement will involve Super-annation contributions at the rate of 6 per cent. Superstraint conditions on the staff of the super-annation contributions at the rate of 6 per cent.

annation contributions at the rate of 6 per cent. of salary. Bioceastral candidates will be required to under-take the design, layout, and preparation of work-ing drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's division. Forms of application may be obtained from the Director of Housing, The County Hall. West-minster Bridge, S.E.I. (stamped addressed foolscap envelope required). Canvasing dia-gaathes. (870) 1032

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD. APPOINTMENT OF PRINCIPAL ASSISTANT ARCHITECT.

AFFORMEMENT OF PRINCIPAL ASSISTANT ACCHITECT. Applications are invited for the above per-manent appointment on the Headquarters Staff of the Board at a salary of 9800 per annum, rising by annual increments of £25 to £950 per annum. Applicants must be Corporate Members of the R.I.B.A., have had considerable experience in heapital design and construction, possess good administrative ability, and be capable of deputis-ing for the Regional Architect. The post is superannuable. Forms of application may be obtained from the Secretary to the Board. "Dunita," Osborne Road, Newcastle-upon-Tyne, 2. to whom the appli-cations should be returned not later than 1st Sep-tember, 1948. CAMBUIDGESHIEE COUNTY COUNCY

CAMBRIDGESHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments

appointments ... (a) ASSISTANT ARCHITECT (Temporary), Grade VI. A.P.T. consolidated salary £555.£660. (b) ARCHITECTURAL ASSISTANT (Per-manent), Grade III, A.P.T., consolidated salary

Grade VI. A.F.T. COMMUNICATION OF COMMUN

Shire Hall. Cambridge. 14th August. 1948. 1585

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 COUNTY COUNCIL OF THE WEST RIDING OF, YORKSHIRE.
 ARCHITECT'S DEFARTMENT.

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 The appointments offer very good opportunities of advancement to suitably experienced applicants who have had the recognised full period of training together with office experience.

 Applications in writing. stating qualifications, should be made to this office, and must reach me not later than 1st September. 1948.

 HUBERT BENNETT, F.B.I.B.A.
 County Architest.

County Hall, Wakefield.

1605

LONDON COUNTY COUNCIL. ARCHITECT'S DEPARTMENT. Applications are invited for the permanent post PRINCIPAL ASSISTANT (Professional).

of PRINCIPAL ASSISTANT (Professional), <u>5960-£1,100 a year</u>. Candidates should be Associates of the Royal Institute of British Architects. experienced in contemporary design, good organisers and cap-able of leading a team of architects. Application forms and farther particulars from the Architect to the Council (P), County Hall, Westminster Bridge, S.E.1 (enclosing stamped addressed foolscap envelope). (1719).

BUCKS COUNTY COUNCIL. Applications are invited for the following appointments in the County Architect's Depart-

of force. subject to Further v be O

subject to medical examination. Further particulars and form of application may be obtained from the County Architeck, County Offices, Aylesbury, to whom applications must be delivered by 4th Sentember, 1948. GUY R. CROUCH, County Hall County Hall

County Hall, August, 1948.

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

1567

1587

Shrewsbury. August. 1948.

WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the appointment of an ASSISTANT ARCHITECT at a salary in accordance with Grade IV (£460-£525) A.P.T. Division of the Consolidated National Scales. Preference will be given to applicants who have passed the whole or part of the examinations of the B.I.B.A.

the R.I.B.A. Further particulars should be obtained from F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than the 7th September, 1948. T. C. HAYWARD, Clerk of the County Council.

County Hall, Chichester, 4th August, 1948.

 Aggust, 1948.
 1897

 GLOUCESTERSHIRE COUNTY COUNCIL. APPOINTMENT OF DEPUTY COUNTY County County County Architect's Department including administrative control of the Local Overnment Superannuation Act. 1937, and such ther conditions as the County Council may for the time adopt, and the successful can-didate will have to pase a medical examination. Tandidates must state whether, to their know-tedge, they are related to any member of, or to the holder of any senior office under the Council. Canasaing, either directly or indirectly, will discussing, either directly or indirectly, will discussing, either directly or indirectly, will discussing, either directly or indirectly. Markin F.R.I.B.A., County Architect, Shire Hall, Gloucester, to whom they should be retared not the the Stith September, 1948. MUX Der Marking Clerk of the County Council. 1214

MUNICIPALITY OF UMTALI. YACANCY : TOWN PLANNING OFFICER. Applications should be submitted in duplicate and one cepy despatched so as to reach me not faiter than noon of 18th day of September, 1948; the remaining copy should be posted at the same time to P. M. Aldred, Esq., co & Rhodesia House. The Strand, London, W.C.: Applications in the commencing salary may be higher than the qualifications and (Nor experi-sons, C.: Applications must have passed the Final Ex-mination of the fiver to application bidding one to more the fiver to application bidding one to more the fiver to application bidding one to more the fiver one planning Institute, and prove the following additional qualifications: Magnetic file of the Royal Institute of British

amination of the Town Planning Institute, and preference will be given to applicants holding one tions:— Final Examination of the Royal Institute of British Architects. Testamer Examination of the Insti-tution of Municipal Engineers. Final Examination of the Royal Institute of Chartered Surveyors, or University Degree in one of the above subjects. Applicants must have had at least three years' experiment of the Noral Institute of the above subjects. Applicants must have had at least three years' experiment of the Noral Institute of the above subjects. Applicants must have had at least three years' experiment of the Noral Institute of the above subjects. Applicants must have not of such schemes, and Interim Development Control and administra-tion. Schemes, preparation of such schemes, and Interim Development Control and administra-tion. The successful applicant will be reourised to serve a probationary period of six months, there-after he will be elliphic for appointment to the fixed establishment, and if so appointed to the fixed establishment, and if so appointed to the fixed establishment and if so appointed he will be required to contribute to the Council's Super-annuation Fund. Applicants are advised that their present suber to the Council will contribute the following amounts towards the cost of sas passages vulled Kingdom:— Man and wife, 250 each. The Council will contribute the following amounts towards the cost of sas passages vulled the successful applicant resign within a period of three years from date of appointment is prescribed form must be produced before the commencement of duty. A satisfactory medical certificate on the council's prescribed form must be produced before the commencie's Superannuation fund. A satisfactory medical certificate on the cound by t

G. F. CLARK. G. F. CLARK. Town House, Umtali, Southern Rhodesia. 5th August, 1948.

BOROUGH OF LEYTON. ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT in the Department of the Borough Engineer and Sur-

an 'ARCHITECTURAL ASSISTANT in the Department of the Borough Engineer and Sur-vevor. The salary will be £480 per annum, rising by three annual increments of £15 per annum, to a maximum of £252 per annum (Grade IV of the National Joint Conncil's Scheme of Conditions of Service) plus London Weighting allowance. Candidates should be members of the Royal In-stitute of British Architects, or hold other snit-able qualifications. They must be cood draughts-ment of the source of the Royal In-stitute of British Architects, or hold other snit-able qualifications. They must be cood draughts-men and possess a practical kn-wiedge of build-ing construction in connection with the main-tenance of and design and construction of schools, and be able to prepare working and detail drawings. The appointment will be subject to the Council's conditions of service, the provisions of the Local Government Superanunation Act, 1937, and the successful candidate will he required to satisfy the Medical Officer of Health as to his medical fitness. Applications, stating age, details of qualifica-tions and experience. together with cooles of there recent testimonials, to be delivered to the Borough Engineer and Surveyor not later than Friday, 3rd September. 1946, in a soaled en-velope endorsed "Architectural Assistant." D. J. OSBORNE.

D.	J.	OSBORNE.	

Town	Hall.		
	Levtop		
12th	August. 1	948.	

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Town Clerk.

CITY OF LIVERPOOL. ARCHITECTURAL AND HOUSING DEPART-MENT. The Council of the City of Liverpool invite applications from qualified persons for the follow-ing appointments in the Architectural and Housing Department, in: QUANTITY SURVEYORS' SECTION. (d) ONE BENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade VIII, £685-2760. (d) ONE ASSISTANT QUANTITY SUR-VEYORS. A.P.T., Grade U, 250-2570. (c) TWO ASSISTANT QUANTITY SUR-VEYORS. A.P.T., Grade II, 2420-2465. ARCHITECTURAL (REDEVELOPMENT) SEC-TION. (d) ONE ASSISTANT ARCHITECT A DE

ONE ASSISTANT ARCHITECT. A.P.T., (d)

Liverpool.

Angust. 1948. 1622 August, 1948. 1948. The Southmead General Hospital Group Management Committee invites applications for the appointment of HOSPITALS ENGINEER, salary scale £620 × 25 × 2720 per annum An officer transferable within the meaning of the Act may retain his existing salary and conditions of service. Group

must be returned not later than the 18th Sep-tember, 1948. 1621 BOROUGH OF WORTHING. BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF TOWN PLANNING ASSISTANT. Applications are invited for the appointment of a TOWN PLANNING ASSISTANT at a salary in accordance with Grade IV of the National Scale of Salaries, £400—525 per annum. consolidated. Applicants should have had a good general train-ing in either Architecture. Engineering or Sur-veying, and have had previous Town Planning experience in a municipal office-particularly with regard to the examination of deposited plans and development control. Preference will be given to candidates who hold a recognised planning quali-fication. The appointment will be subject to one month's notice on either side and to the pro-visions of the Local Government and Other Officers Superannuation Act. 1937, and the success-ful applicant, will be required to pass a medical examination for entry to the Corporation's ser-vice. Applications, stating age, qualifications, ex-perience, previous and present suppointiments, and accombanied by copies of three recent testi-monials, should be delivered to P. E. Harvey. EQ., O.B.E. A.M.I.C.E., Borough Engineer and Surveyor. not later than 10th September. 1946. EENEST G. TOWNSEND. EENEST G. TOWNSEND.

Town Hall, Worthing. 18th August, 1948.

COUNTY BOBOUGH OF HALIFAX. APPOINTMENT OF ASSISTANT ARCHITECT (BDUCATION). Applications are invited for the above appoint-ment in the Borough Engineer's Department at a salary in accordance with Grade V of the National Scales. (£520 rising to £570 per annum). annum). The

annum). The successful candidate, who should possess appropriate qualifications, will be engaged prin-cipally on the design and erection of new schools. The position is a superannuated one. Applications, stating age, qualifications, present position and salary and experience, and accompanied by copies of recent festimonials, and appropriately endorsed, should be delivered to the undersigned not later than Saturday, 11th September, 1948. R. de Z. HALL, Esc.

R. de Z. HALL, Esq., Town Clerk.

1608

Town Hall, Halifax 16th August, 1948.

1608 CITY OF PORTSMOUTH. CITY OF PORTSMOUTH. CITY ARCHITECT'S DEPARTMENT. Applications are invited for the following permanent appointments in the Department of the City Architect. (a) TWO ASSISTANT ARCHITECTS. Grade VI

City Council Chambers, 1, Clarence Parade, Southsea. 12th August, 1948. 1609

 12th August, 1948.
 1609

 KENT EDUCATION COMMITTEE.
 BROMLEY COMMITTEE FOR EDUCATION. COLLEGE OF ART.

 BUILDING DEPARTMENT.
 Applications are invited from suitably qualified persons for part-time evening appointments for September as LECTURERS in Building Con-struction, Building Materials, Maintenance and Repair of Buildings.

 Remuneration will be 14s. per hour plus travelling expenses.

 Applications by letter, giving full particulars.

 should be submitted as soon as possible to Head of Building Department. Wharton Road, Bromley, Kent.

 METEOPOLITAN BOROUGH OF DEPTOOPD

An analysis of the second as possible to the data of building Department. Whaton Road, Bromley, Kent. 1232 METROPOLITAN BOROUGH OF DEPTFORD. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the position of ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department at a salary of 2625 to 2690 per annum (Grade VI of the A.P.T. Division of the National Joint Scale). Candidates should be corporate members by examination of a professional institute or hold an equivalent qualification. They should have had general experience in the design and construction of Municipal Engineering Works, and should be accustomed to the preparation of plans, estimates, quantities, and specifications, and also the secting out and supervision of works carried out by contract. The superannum officer, and the passing of a salisactory medical examination. Adds, the National Joint Scale in private practice. The superannum officer, and the passing of a salisactory medical examination. Adds, the National Joint Scale of the office office of the connective to the connective to the connective of barries of the officer and the passing of a salisactory medical examination. Adds, the National Joint Scale of the connective to the connective of the officer and the passing of a salisactory medical examination. Adds the National Joint Scale of the connective the there council to the holder of any senters of the connective the the council or the holder of any senters of the council or the holder of any senters of the council or the holder of any senter of the council or the holder of any senter officer, and the passing of a salisactory medical examination. Adds, the National Joint Scale office of any senters of the council or the holder of any senters of the council or the holder of any senter office o

ERNEST FIELD, own Clerk.

1632

Deptford Town Hall, New Cross, S.E.14. August, 1948.

1634

CITY OF OXFORD. CITY ARCHITECT'S DEPARTMENT. Applications are invited for the nuclermentioned osts on the Staff of the City Architect's Depart. posts ment

posts on the start of the City Architect's Department:(1) ASSISTANT QUANTITY SURVEYOR.
(2) ASSISTANT QUANTITY SURVEYOR.
(3) Crade Va. A.P.T. Division. Salary. £550 × 220-2610 per annum.
Preference will be given to applicants who have passed the Final Examination of the Royal Institution of Chartered Surveyors (Quantities, Site Measurement, valuations for Certificates, preparation of estimates, adjustment of variations and settlement of Final Accounts.
(2) ASSISTANT ESTATES SURVEYOR. Grade UV. A.P.T. Division. Salary, £400×E15-225 per annum.

and settimment of sentimetes, additional to variations and settimment of Final Accounts.
 (a) ASSISTANT ESTATES SURVEYOR. Grade U, A.F.T. Division. Salary, £400×£15-£255 per annum.
 Preference will be given to applicants who have passed the Intermediate or Final examination of the Royal Institution of Chartered Surveyors (Estate Management Section) or equivalent. They should have experience in the valuation of land and property and its acquisition by regoliation and compulsory purchase, and also in the leasing of buildings and land. A sound knowledge of cecent legislation, including the Town and Country Planning Act. 1947, is desirable, and a good opportunity for advancement exists.
 (3) TWO ARCHITECTURAL ASSISTANTS.
 2460 per annum.

Grade 11, A.F.I. Drusses
 Applicants will be required to carry out varied architectural duties on Schools, Housing and Public Buildings.
 (4) TWO ARCHITECTURAL ASSISTANTS.
 Grade I, A.P.T. Division. Salary. 2390×215-

architectural duties on Schools, Housing and Public Buildings.
 (4) TWO ARCHITECTURAL ASSISTANTS, Grade I. A.P.T. Division. Salary. 2300×215-2435 per annum.
 Applicants will be required to carry out elementary work on Schools, Housing and Public Buildings, and skilful and speedy draughtsmanship will be required.
 (5) TEMPORARY ASSISTANT ARCHITECT. Grade VA, A.P.T. Division. Salary. 2550×220-2610 per annum.
 Applicants should be members of the R.I.B.A., and experience in either Housing or Education work is required.
 THE COUNCIL WILL IF REQUIRED. MAKE HOUSING ACCOMMODATION AVAILABLE FOR THE SUCCESSFUL APPLICANTS FOR POSTRE 1. 3, 4 AND 5. AND IT MAY BE POSSIBLE TO ASSIST THE PERSON APPOINTED UNDER POST NO. 2 IN FINDING HOUSING ACCOMMODATION.
 The appointments, except No. 5, will be to the Premanent Staff, and will be subject to the National Conditions of Service, the Local Govern sympathetic and the required to pass a medical candidates.
 Ther details of the duties and application post, and be used in applying for the posts, may be obtained from F. G. Chandler, A.R.J.B.A., A.M.T.P.I., City Architect, Town Hall, Oxford.
 Arker form shush be required to the City Architect not later than first post Monday, the 20th September, 1982.

HARRY PLOWMAN. Town Clerk. 1626

Town Hall, Oxford.

 Town Hall, Oxford.
 1027

 KENT COUNTY COUNCIL.
 Applications are invited for a permanent post of SENIOR ASSISTANT ARCHITECT in the Buildings Department within the salary range £435—£760 a year.

 The post is superannable and the successful candidate will be required to pass a medical examination.

 Candidates, who must be Members of the Royal Institute of British Architects by examination, should be experienced in the general administration of an Architect's Department of a Local Authority and in the design, construction and supervision of County builtings (other than schools), and be fully competent to take charge of projects.

Guildhall, Northampton.

Applications, and he fully completent to take charge of projects. Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than the 11th September, 1948. W. L. PLATTS. W. L. PLATTS. W. L. PLATTS. County Hall, Maidstone. 13th August, 1948. COUNTY BOROUGH OF NORTHAMPTON. BOROUGH ARCHITECT'S DEPARTMENT. Particulars of the following appointments and forms of application, which must be returned by 14th September, 1948, may be obtained from the Undersigned.

Additional and the second second and the second seco

writing in connection with Schools, Housing and General work.
(b) ASSISTANT ARCHITECT, A.P.T. III (£450-£495).
Applicants should have had considerable ex-perience in design, construction and specification writing.
(c) ARCHITECTURAL ASSISTANT, A.P.T. I (£300-£435).
Applicants should have had good general ex-perience in the preparation of working drawings and details. perience in and details.

C. E. VIVIAN ROWE. Clerk.

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1606 COUNTY BOROUGH OF BOURNEMOUTH. BOROUGH ENGINEER'S DEPARTMENT. Applications are invited for the following appointments in the rown Planning Section. (a) One SENIOR PLANNING ASSISTANT, (b) One SENIOR PLANNING ASSISTANT, (c) advantage.

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ing of a Civil Engineerum, the avail faction will be an advantage. (4) Tow PLANNING ASSISTANTS (General Division, salaries according to age, max. £385). Appointments will be terminable by one methys notice in writing on either side, and sub-bet to the provisions of the Local Government with the provisions of the Local Government of the total gradient of the side and the provisions of service, the standing orders and other regulations of the Council in the standard other regulations of the Council in the selected candidate may be a medical examination. Applications appropriately endorsed, stating set, qualifications, experience, pass and present applications isould reach me not later than 17the south and the selection of the Council in the selection of the selection of the selection and the selection of the selection

ournemouth.

SOUTH EASTERN ELECTRICITY BOARD. STAFF VACANCIES. Applications are invited for the following appointments on the Surveyor's staff of the East Sussex and South West Kent Sub-Area, East-borne Surgery in:

A. L. BURNELL, Secretary.

5-6, Lancaster Place, Strand, W.C.2. August, 1948.

CRAWLEY DEVELOPMENT CORPORATION require a CLERK for the Architect's Depart-ment at a salary of 2400×225-2500. Candidates should have some knowledge of drawing, archi-tectural office routine, keeping of records, and filing. To be able to use a typewriter eould be an advantage. Contributory superannuation (with the choice of entering a fund nuder the Local Government Superannuation Act, 1937) will be provided. Applications in candidate's hand-writing stating age, whether married or single, particulars of previous employers, and ex-perience, and giving the names of three persons from whom references may be obtained, should reach the Chief Architect, Mr. A. G. Sheppard Fidler, M.A., B.Arch, A.R.I.B.A., A.M.T.P.I., at Broadfield, Crawley, Sussex, by 1st September, 1948. Sussex, 5, C. A. C. TURNER, Chief Executive. 1607

COUNTY BOROUGH OF DERBY. APPOINTMENT OF CHIEF PLANNING ASSISTANT. Applications are invited for the appointment of CHIEF PLANNING ASSISTANT in the Town Planning Department of the Borough Engineer & Surveyor's Office. Salary in accordance with Grade VIII of the A.F.T. Scales (2685-£760). Candidates should be A.M.T.P.I. and hold a basic professional qualification (preferably A.R.I.B.A.) and have thad considerable experience in modern planning technique. Preference in this appointment will be given to a person who is experienced in the planning of new development and re-development schemes in urban areas, for which work he will be primarily responsible and in which there is considerable scope. Conditions of service are those formulated by the National Joint Council, and the appointment is subject to the provisions of the Local Gevern-ment Superannuation Act, 1937, and the success-ful candidate will be required to pass a medical examination. The appointment will be terminable by one

ful candidate will be required to pass a medical examination. The appointment will be terminable by one month's notice on either side. Applications, appropriately endorsed, together with three recent testimonials, should be sent to M. L. Francis, F. R.L.C.S., M. I.Mun.E., Borough Engineer & Surveyor, The Council House, Cor-poration Street, Derby, not later than 16th Sep-tember, 1948. Canvassing, directly or indirectly, will be a dis-qualification, and candidates should state whether they are related to any member or senior official of the Council. C. ASHTON.

C. ASHTON, Town Clerk.

Town Clerk's Office, The Council House, Derby. August, 1948. 1625

lxiii

THE GLASGOW SCHOOL OF ARCHITECTURE. SENIOR LECTURESHIP IN TOWN AND COUNTRY PLANNING. Applications are invited for the post of LECTURER, in charge of the new Diploma Course in Town and Country Planning. Salary by increments of £25 to £350, with position on the scale according to qualifications and experi-ence. Further particulars and form of application may be obtained from the Secretary, Royal Technical College, Glasgow, C.1. 1640 BOROUGH OF TOROUAY APPOINTMENT OF TEMPORARY ASSISTANT QUANTITY SURVEYOR. Applications are invited for the above post, in the Borough Surveyor's Department, at a salary in accordance with A.P. and T., Gra7e II. of the National Scale of Salaries (£420-£15-£465) per annum.

Applicants should be suitably qualified and ex-perienced in taking off, measuring works in pro-gress, and settling final accounts. The appointment is temporary, determinable by one month's notice on either side. Applications, giving details of age, education, qualifications, technical training and experience, together with copies of three testimonials, should be sent to the Borough Surveyor, Town Hall, Torquay, not later than Monday, 13th September, 1948.

T. ELVED WILLIAMS. Town Clerk.

T. ELVED WILLIAMS. Town Hall, Torquay. Town Clerk. Town Clerk. Town Clerk Clerk. Town Clerk English and Clerk Clerk. Town Clerk English Clerk Clerk. Town Clerk English Clerk Clerk

ERNEST G. TOWNSEND, Clerk.

1942. Term Ball, Worthing. 18th August, 1948. 1652 BINGLEY URBAN DISTRICT COUNCIL. SURVEYOR AND ARCHITECT'S DEPT. APPOINTMENT OF ARCHITECTURAL SUSSTAT. Applications are invited for the appointment of Architectural Assistant, at a salary in accordance Vational Scale of Salaries, i.e., 2420 × 215 to 2465 per annum. Candidates should have had experience in the action of the A.P.T. Division of the 2465 per annum. Candidates should have had experience in the action of a conduction of the ex-amination qualifying for A.R.I.B.A. The appointment will be terminable by one motify notice on either side, and subject to the noticities of the Local Government Supetannua. The appointment, and general archi-ties and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience, and details of past and present appointments, accompanied by copies of and experience and details of past and present appointments, accompanied by copies of and experience and details of the ander. *E* M. DUNYELL *Clerk of the Council*. Torocold OF NUTHALL

Town Hall, Bingley.

 Town Hall. Bingley.
 Clerk of the Counct.

 1500
 BOROUGH OF SOUTHALL.

 APPOINTMENT OF SENIOR ARCHITEC-TURAL ASSISTAT.

 Applications are invited for the above appoint-ment, on the permanent staff of the Corporation, at a salary in accordance with A.P.T. V. of the National Scheme (S20-ES70), plus appropriate London weighting.

 Tandidates must be members of the Royal Insti-tute of British Architects, and have previous Local Government experience.

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

 The is a condition of appointment that the successful applicant shall be a member of his propriate trade union, professional organisation or other recognized body.

 Applications. on forms to be obtained from the Borough Engineer, Town Hall, Syuthall, must be returned to him on or before Friday, 10th Sep-tember, 1948.

 Canvassing will disqualify.
 J.S. SYRETT. Town Clerk.

Town Clerk's Office, Southall.

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WILLIAM D. SMITH, Town Clerk.

Town House, Arbroath

1591 BIRMINGHAM REGIONAL HOSPITAL BOARD, ARCHITECT.

ABCHITECT. ABCHITECT. APplications are invited for the position of ABCHITECT on the Headquarters Staff of the Board at a salary of £1,350×£50-£1,550. The successful applicant will be required to advise the Board on architectural matters relating to ex-tension, adaptation and development of hospitals: to carry out such related professional and ad-ministrative duties as may be assigned to him, and to devote the whole of his time to the duties of his office. Applicants should be Fellows or Associates of the Royal Institute of British Archi-tects, preferably 40-46 years of age, and should practice, especially in relation to 'nspital work. The appointment will be subject to the National Health Service (Superannustion) Regulations, 1947, and satisfactory medical examination, and will be terminable by three months' notice by either side. Applications, stating oge, experience and qualifications, together with the names of three referees, abould be addressed. in envelopes marked "Architect." to W.F. Newstead, F.C.I.I. F.H.A., Secretary to the Board. 10, Augustus Road, Edghaston, Birmingham, 15, so as to reach him not later than September 11th, 1940. COUNTY BOROUGH OF DEWSBURY.

as to reach him not later than September 11th. 1948. COUNTY BOROUGH OF DFWSBURY. BOROUGH ARCHITECT AND BUILDING SURVEYOR'S DEPARTMENT. Applications are invited for the following appointments in the Department of the Borough Architect and Buildings Surveyor. (a) CHEF TOWN PLANNING ASSISTANT. Salary £955-£660 per annum. (b) TOWN PLANNING ASSISTANT. Salary £460-£625 per annum. Further particulars can be obtained from the Borough Architect and Buildings Surveyor, Town Hall. Dewsbury. Applications, stating age. qualifications, and experience, and accompanied by copies of three recent leatimonials. should be received by me not later than 6th September. 1948. endorsed "Chief Town Planning Assistant" or "Town Planning Assistant." A. NORMAN JAMES recent tes later than Town Pla Assistant.

A. NORMAN JAMES, Town Clerk.

1589

Town Hall. Dewsbury. 10th August. 1948.

COUNTY BOROUGH OF BLACKBURN. APPOINTMENT OF ARCHITECTURAL ASSIGTANTS. Applications are invited in connection with the following appointments:-1. ARCHITECTURAL ASSISTANT, Grade V (salary £520-£570).

EAST BARNET URBAN DISTRICT COUNCIL. ENGINEER & SURVEYOR'S DEPARTMENT. Applications are 'nvited for the following per-manent appointments. (a) CHIEF ARCHITECTURAL AND TOWN PLANNING ASSISTANT, at a salary in accord-ance with Grade VI of the A.P.T. Division of the National Joint Council's Scale (£595-£660) plus the appropriate London Weighting and Car Allowance for a 10-h.p. Car or under, also in accordance with the National Scale. Applicants should hold an Architectural and/or Town Planning qualification by examination, and preference will be given to three having previous experience in similar work with a Local Authority.

experience in similar bors with anthority.
 (b) DRAUGHTSMAN (MALE OR FEMALE) at a salary in accordance with the General Division of the National Joint Council's Scale. For Males, according to age, rising from £135 per annum at age 16 to a maximum of £385 at age 32, plus the appropriate London Weighting. For Females, according to age, rising from £088 per annum at age 16 to a maximum of £388 at age 32, plus the appropriate London Weighting. Applicants should have had previous experience in a drawing office of a Local Authority or private firm.

Applicants awing office of a Local Authority or private firm. Each of the above appointments will be subject to one month's notice on either side, and to the provision of the Local Government Superannua-tion Act, 1937. The successful Candidates will be prequired to pass a medical examination. Form of Application and Conditions of Appointment may be obtained from the under-signed, to whom completed applications should be returned by not later than Friday, Joth Sep-tember, 1948. Canvassing, directly or indirectly, will dis-qualify. C. M. BARNES, O.B.E. MI.Mun.E., F.R.S.I., Engineer and Surveyor. Town Hall, Station Read, 1598

C. M. BARNES, O.B.E., *Engineer and Surveyor.* Town Hall, Station Read, New Barnet, Hertfordshire. 1598 EASTERN REGIONAL HOSPITAL BOARD, SCOTLAND. Applications are invited for the post of ARCHITECT to the Board. Applicants should be Fellows or Associates of the R.I.B.A. The salary is 2750 by 225 to 21,000 per annum. The post will be subject to the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidate will be required to pass a medical examination. The period of notice of termination of the appointment will be three months on either side. Canvassing in any form will disqualify. Applications, stating age and containing full particulars of qualifications and experience, and accompanied by the names and addresses of three referees, should be sent to the Secretary. Eastern Regional Hospital Board. "Bracknowe" 430, Blackness Road, Dundee, not later than 18th September, 1948. 1624 CITY OF LEICESTER Applications are invited for the appointment of CHIEF MAINTENANCE ASSISTANT in the City Engineer's Department. The salary is £635/ \$F10 (Grade A.P.T. VII), and the appointment is subject to the provisions of the Local Govern-ment. Superannuation Act, 1937. The work entails the supervision and main-tenance of various types of building construction and be capable of estimating and preparing necessary schemes of alterations and maintenance work and supervising the work during construc-tion. They should have a good knowledge of architectural practice and have thar exprisence in carrying out work both by contract and direct labor.

Carrying out using age, qualifications, details Applications, giving age, qualifications, details of experience, with copies of testimonials, should reach the undersigned not later than September 4th next. JOHN L. BECKETT, M.I.C.E.. City Engineer and Surveyor.

Town Hall, Leicester. 1603

Leicoster. 1603 WERTERN REGIONAL HOSPITAL BOARD. APPOINTMENT OF DEPUTY CHIEF ARCHITECT. Applications are invited from Fellows or Asso-ciates of the Royal Institute of British Architects for appointment as DEPUTY CHIEF ARCHI-TECT to the Western Regional Hospital Board. The person appointed will be required to act along with the Chief Architect on architectural matters relating to hospitals administered by the Board and to carry out such related professional and administrative duties as may be required. Applicants should have had considerable ex-perience of architectural practice, especially in relation to the design and construction of hos-pitals.

relation to the design and construction of ince-pitals. Salary for the post will be 275> 225 to £1.000. The appointment is superannuable and is termin-able by three months' notice on either side, and successful applicants will require to pass a medical examination. Applications, giving particulars of age, edu-cation, technical training, qualifications, present and previous appointments, and full details of experience, together with the names of three referees, and endorsed "Deputy Chief Architect," must be delivered to the undersigned not later than Friday, 3rd September, 1946. FORERS MURISON. Chief Architect.

Western Regional Hospital Board, 65, Renfield Street, Glasgow, C.2 1602 CITY OF PETERBOROUGH. CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the appointment of a QUANTITY SURVEYOR in the Architectural Socian of the City Engineer and Surveyor, Department, at a salary in accordance with Grad-to 2570 per annum. Applicants must be capable of taking off bills of quantities, abstracting and billing, measuring up on site, and agreeing final accounts. The City Council have adopted the National Scheme of Conditions of Service. The appoint ment is subject to the provisions of the Local Government Superannuation Act, 1957, and suc-cessful applicant will be required to pass a medical examination. Applications, stating ag qualifications and experience, accompanied by copies of not more than three recent testimonials and suitably endorsed, must be delivered to the undersigned not later than 3rd September, 1944. Applicants must disclose whether they are re-tated to any Senior Official or Member of the Authority. ARTHUR J. REEVES. ARTHUR J. REEVES, Town Clerk. Authority.

Town Hall, Peterborough. August, 1948.

Tor Hell, Methodow and the second state of th

 (Sgd.) R. S. FORSTER. Town Clerk.

 Town Hall.

 Dyne Road,

 Kilburn, N.W.5.

 Sth August, 1948.

 BOROUGH OF HESTON AND ISLEWORTH. ENGINEER AND SURVEYOR'S DEPARTMENT.

 Applications are invited for the appointment of SECOND PLANNING ASSISTANT.

 Applications are invited for the appointment of SECOND PLANNING ASSISTANT in the a salary in accordance with Grade IV of the A.P.T. Division of the National Scale, viz., 2440-£15-£525 per annum, consolidated, plus current London "weighting."

 Candidets should have and Interim Develop-ment procedure. The possession of the examina-tion dualification of the Town Planning Institute or other equivalent examination qualification will be considered an advantage.

 Application, forms, which can be obtained from the Borough Engineer, 88, Lampton Road, Hounslow, by sending a stamped addressed fool-can envelope, should be returned to him (endorsed "Hanning Assistant") not later than noon os et Replember, 1948.

 Cancil House, Hounslow, Middlesex.
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Council House, Hounslow, Middlesex.

 Concil House.
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 Monslow, Middlesex.
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 MONMOUTHSHIRE COUNTY COUNCIL.
 Applications are invited for the following posts in the County Architect's Department: -

 (a) Two
 Permanent ARCHITECTURAL

 ASSISTANTS at a solary in accordance with Grade VII (i.e., £635, rising by annual increments of £25 to £710 per annum) of the Administrative, Professional and Technical Brision of the National Joint Council's Scale.

 (b) One Permanent ASSISTANT QUANTITY SURVEYOR at a salary in accordance with Grade for £25 and one of £25, to £60 per annum) of the for £25 and one of £25, to £60 per annum) of the for £25, to £60 per annum) of the post, and conditions of service, can be obtained from the mational Joint Council's Scale.

 Torne of application, particulars of the post, and conditions of service, can be obtained from the indentions, together with code of three recent testimonials, must be delivered to Colin L. Jones, Esg., F.R.I.B.A., County Architect, Queer's Hill, Newport, Mon., to EURON LAWRENCE.

VERNON LAWRENCE. Clerk of the Council.

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EAST Application (a) A CH NING OF to according to by annual (b) A DH ning Office A.P.T., Gr. Candidat poste Men and prefer posses a 1 civil ength had extens and rural detailed pl ministratic be require to the Conmest impor-mection w. Developmin Travellin ance with Candida dition i. Candida ditauchten dirauchten the applica canto the ca

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H. S. MARTIN, Clerk of the County Council. 1644

County Hall, Lewes. 20th August, 1948.

HUDDERSFIELD TECHNICAI. COLLEGE. Principal: DR. W. E. Scort, M.B.E. Applications are invited for the post of territorial for the post and the should the A.R.I.B.A. or Daties will commence as soon as possible. The post of the post and the candidate. Application forms must be obtained from the since as possible. H. KAY.

H. KAY. Director of Education. 1653

Competitions

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

WITHOUT A LEG TO STAND ON ?...perhaps it's a new design. Sond it to the Palatial National Furniture Design Competition. Now open. 500 Gns. in prizes for Amateur and Pro-temional Designers. Entry forms and details from Palatial. Ltd., 616, Old Ford Read, London, E3. 1588

Architectural Appointments Vacant

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

SENIOR ASSISTANT ARCHITECT required in the Staff Architects' Department of a large West Riding Multiple concern; salary £500 pa. Write, stating age and experience, with opies of testimonials, to Box 1386.

A RCHITECT'S DRAUGHTSMAN, age 25-30, re-mercial Firm. Apply, stating age, experience, and salary required, Box 1418.

NATIONAL Company with interests through-ont the country, require services of an ABCHITECTURAL ASSISTANT in their Lon-don Offices. The work is generally industrial, and calls for quick and accurate draughtsman-mib, detailing, and ability to write specifications, make surveys, take levels, and deal with all withorities concerned. Applicants should be cap-able of taking a job from the skytch stave to final account, with slight supervision. Salary, 200 per anuum. Member of the R.I.B.A. pre-letted. Box 1547.

A RCHITECTURAL ASSISTANT required for private practice in S.E. London area; com-petent draughtsman, working drawings, surveys; knowledge of specifications and quantities an ad-vantage. Salary, £250-£363, according to ability. Apply Box 1546.

A RCHITECT'S ASSISTANT (qualified) re-quired for multiple firm, Birmingham office. Progressive position offered to energetic man. State age, experience, qualifications and salary required. Box 1525.

K EEN JUNIOR ARCHITECTURAL ASSIST-tect for a branch office in Cornwall. Reply, stating age, experience and salary required, to Box 1537.

MANAGING ASSISTANT required by pro-mouth Office. Full particulars, including qualifi-cations, experience and salary required, to Box 1571.

SENIOR ARCHITECTURAL ASSISTANTS required immediately. Salary according to experience and qualifications. Farmer and Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 1570

R EQUIRED by the Church Commissioners, two qualified ARCHITECTURAL ASSIST-ANTS. Apply, stating age, qualifications, ex-perience and salary required, to Box 156%.

A RCHITECTURAL or SURVEYING ASSIST-ANT required for maintenance work by North Eastern Brewery, permanency for suitable man. Help given with housing accommodation. State salary required, age, experience, training and full particulars to Box 1502.

DUNLOP Rubber Company, Limited, require perienced in Industrial Design and Construction. Qualifications are advantageous, lut not essential. Applications in writing to Personnel Manager, Fort Dunlop, Erdington, Birmingham, 24. 1596

A RCHITECTURAL ASSISTANT required; good Draughtsman with experience in sur-veys, levelling and estimating. Wages accord-ing to experience. Apply Austin Motor Co., Ltd., Birmingham.

SENIOR ARCHITECTURAL ASSISTANT re-quired for general Architectural practice. Reply, giving experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13.

Manchester, 13. 1593 A SSISTANT ARCHITECTS. Applications are invited by Co-operative Wholesale Society. Limited. for appointments as ASSISTANT ARCHITECTS. Applicants should be good draughtsmen with a sound knowledge of general construction, and experience in commercial and industrial work will be an advantage. Salary £420 to £500 per annum, plus cost of living bonas of £64 per annum, or £500 to £600 per annum plus cost of living bonus £110 per annum, according to experience and qualifications. The appointments are permanent and offer good pros-pects of promotion for competent assistants. Successful candidates will be required to pass a medical examination for entry into compfisory superannuation scheme. Applications, stating age, educational qualifications and experience. to be addressed to the C.W.S. Ltd. Architect's Department, 1, Balloon Street. Manchester, 4. 1594

1919 B. B.C. invites applications for the following hords in Building Department in hords in Building Mentales of the hords in the fulled by qualified members of the hords in the several planning, working and herebration of specifications and rouch estimates. A knowledge of quantities is essential. Know-ledge of modern soundproof type construction for strade, with annual increments of 240, rising to a maximum of £890 per annum. (ii) THREE ASSISTANTS IV Architectural). Candidates herebrationed increments of 240, rising to a maximum of £890 per annum. (iii) THREE ASSISTANTS IV Architectural). Candidates here realing increments of £20, rising to a maximum of £800 per annum. (iii) THREE ASSISTANTS IV Architectural). Candidates here realing the annum. (iii) THREE CLERKS OF WORKS (Class I). Candidates must furnish full details of their qualifications and experience. Show they have been employed, stating dates and present appropriate on the source on which in first-class building work is necessary. Salary in arging a prior first-class building work is necessary. Salary in arging in generation of the work on which prior in grade, with annual increments of 530, rising the prior of the source on the source on the source on the stating and present approprint on the source on the based of the prior of the source on the source on the stating and present approprint on the source on the source on the stating and present approprint of the source on the stating and present approprint on the source on the source on the stating and present approprint on the source on the

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10

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115

C

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r

2



lx vii

Alphabetical Index to Advertisers

PAGE xlvii lxvii xlix yi H

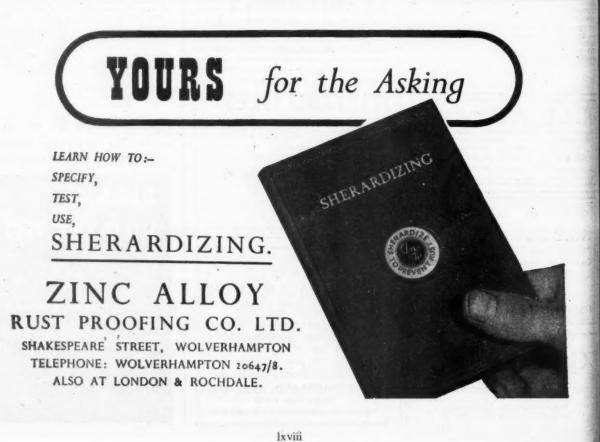
xiiii

> xliv xxix liv xxri xii

lxvii xxviii lvi x.rvi

	PAGE		PAGE	
Aidas Electric, Ltd.		Ellis School of Building	Ixvii	McArd, Robt., & Co., Ltd.
Anderson Construction Co., Ltd.	xvii	Empire Stone Cor. Ltd.		McCarthy, M., & Sons, Ltd
Anderson Construction Co., Ltu.	xivili		+	Mellowes & Co., Ltd.
Architects Benevolent Society	TATE	English Joinery Manufacturers' Assoc	lvii	Motallia Casalasa Maka Ca. Ted
Arens Controls, Ltd.		Etchells, Congdon & Muir, Ltd.		Metallic Seamless Tube Co., Ltd.
Ashwell & Nesbit, Ltd.	lvii	Excel Asphalte Co., Ltd.	lviii	Metal Section, Ltd.
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		Forder	lxvii	Midland Joinery Works, Ltd.
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Bath Cabinet Makers & Arterafts, Ltd.		Frays (Engineers), Ltd.		Midland Woodworking Co., Ltd
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Boulton & Paul, Ltd.		Harper, John, & Co., Ltd.	v	Patchett & Co., Ltd
Bowaters Building Boards, Ltd	xix	Harcourts	XXXII	Peglers, Ltd.
Box, C. W., F.R.I.B.A.	lxvii	Harvey, G. A., & Co. (London), Ltd	iii	Pilkington Bros., Ltd
Brixton School of Building	liv	Haskins Rolling Shutters	xxxii	Pritchett & Gold & E.P.S. Co., Ltd
Bryant, C., & Son, Ltd.	xxxiv	Henderson, P. C., Ltd.	20.00.25.00	Prodorite, Ltd.
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Chubb & Sons, Lock & Safe Co., Ltd	liv	Johnson & Phillips, Ltd.	xxvii	Sundeala Board Co., Ltd
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Efril Sales Organisation	lvi	Mavitta Drafting Machines, Ltd.	XIV1	Willcox, W. H., & Co., Ltd.
	lxvii	Marriell Androw		WHICOX, W. H., & CO., Ltd.
Ellison, George, Ltd.	IXVII	Maxwell, Andrew	xlix	Zine Alloy Rustproofing Co., Ltd

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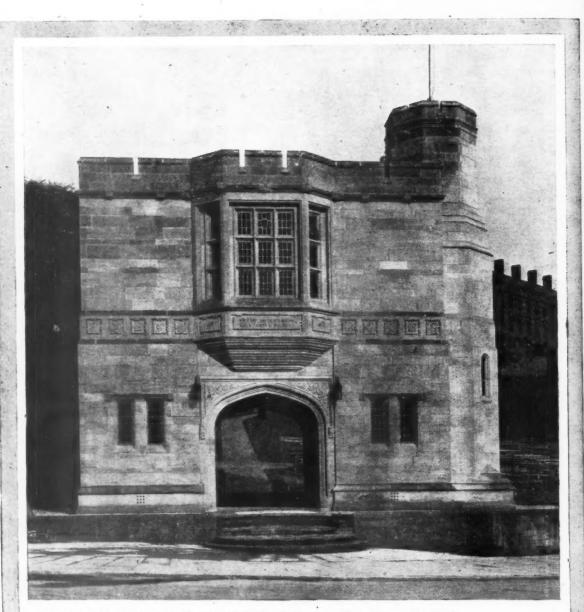
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