DEPARTMENT STACK

The Architects' JOURNAL for April 15, 1948

HE ARCHITECTS'



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 SECTION

Information Sheets Information Centre Current Technique Questions and Answers Prices

The Industry

#### PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS HOUSING STATISTICS

Architectural Appointments Wanted and Vacant

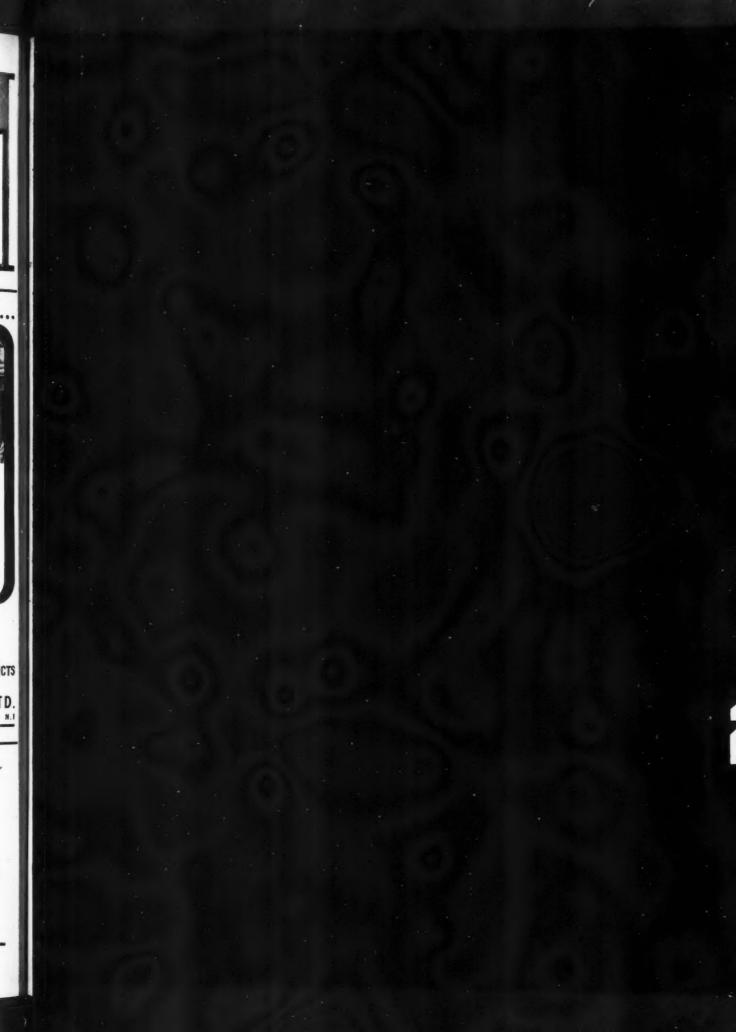
No. 2775	1	VOL. 107
THE	ARCHITECTURAL	PRESS
9, 11 and 1	3, Queen Anne's Gate, W	
S.W.1.	'Phone : Whit	tehall 0611

Pri	ce	9d.
Registered	as a	Newsbab

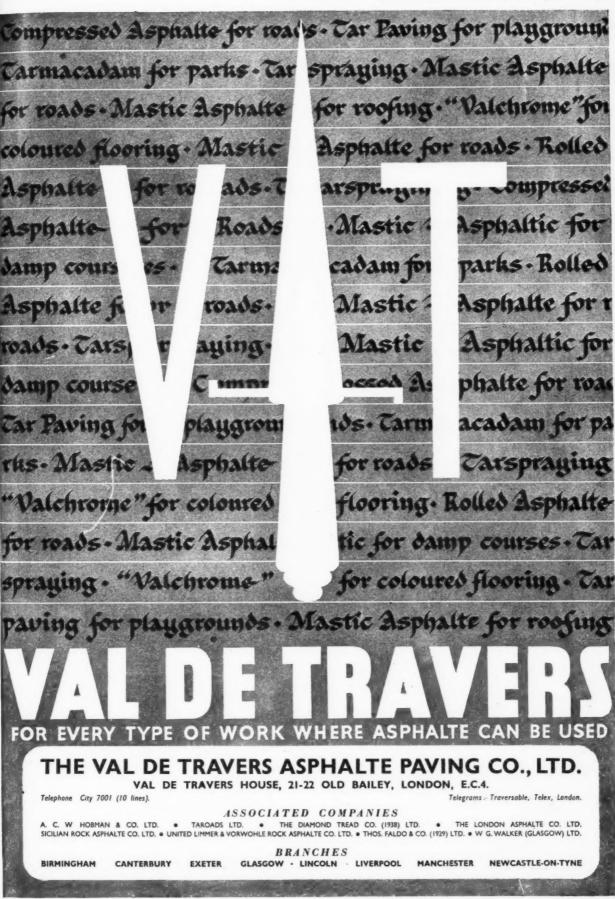
] (	OURNA	L
of all kind lished in tw	assary of abbreviations of Government Departments and Societies a s, together with their full address and telephone numbers. The g to parts—A to H one week, I to Z the next. In all cases where t the word LONDON is implicit in the address.	lossary is pub-
AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1. Association of Art Institutions. Secy.: W. Marlborough Whitehead	Museum 0974 , "Dyneley,"
ABS ABT ACGB ADA APRR	Castle Hill Avenue, Berkhampstead, Herts. Architects' Benevolent Society. 66, Portland Place, W.1. Association of Building Technicians. 5, Ashley Place, S.W.1. Arts Council of Great Britain. 4, St. James' Square, S.W.1. Aluminium Development Association. 33, Grosvenor Street, W.1. Association for Planning and Regional Reconstruction. 34, Gordon	
ArchSA ARCUK ASB	Square, W.C.1. Architectural Students' Association. School of Architecture, Manch Municipal School of Art, All Saints, Manchester, 15. Architects' Registration Council. 68, Portland Place, W.1. Architectural Science Board of the Royal Institute of British Architect	Ardwick 3480 Welbeck 9738
AScW	66, Portland Place, W.1. Association of Scientific Workers. 15, Half Moon Street, Piccadilly,	W.1.
BAE BATC	Board of Architectural Education. 66, Portland Place, W.1. Building Apprenticeship and Training Council. Lambeth Bridge Ho	
BC	Building Centre. 9, Conduit Street, W.1.	7611, Ext. 1706 Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF BCIRA	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2. T	
BGC BGF	British Gas Council. 1, Grosvenor Place, S.W.1. British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 4554 Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.	2.
BIAE	Glasg British Institute of Adult Education. 29, Tavistock Square, W.C.1.	ow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS BSA	Building Research Station. Bucknalls Lane, Watford British Steelwork Association. Eggington House, Buckingham Gate	Garston 2246 S.W.1.
		/ictoria 7301-2-3
BSA BSI	Building Societies Association. 14, Park Street, W.1. British Standards Institution. 28, Victoria Street, S.W.1.	Mayfair 0515 Abbey 3333
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A.	
CCA	Salop County Council, 5, Belmont, Shrewsbury. S Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	
CDA	Copper Development Associatie . Kendals Hall, Radlett Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Recent 2074
CIAM	Congrès Internationaux d'Architecture Modérne. Doldertal, 7. Zur	Regent 3074 rich, Switzerland
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.	W. Sloane 4280
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1. Design and Industries Association. 9, Conduit Street, W.1.	Victoria 9851 Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC		Temple Bar 7565
EJMA EPNS	English Joinery Manufacturers Association (Incorporated). Sackvi 40, Piccadilly, W. English Place-Name Society. 7, Selwyn Gardens, Cambridge.	lle House, 1. Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns.	, S.W.1. Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI FC	Federation of British Industries. 21, Tothill Street, S.W.1. Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711
FCMI FDMA	Federation of Coated Macadam Industries. 37, Chester Square, S.	Sloane 1002
FLD	Flush Door Manufacturers Association. Stapleford Road, Trowel Friends of the Lake District. Pennington House, Nr. Ulverston, L	Ilkeston 623/4/5
		Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Stre	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.	W.1. Sloane 2837
GG HC	Georgian Group. 27, Grosvenor Place, S.W.1. Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2844 Whitehall 2881



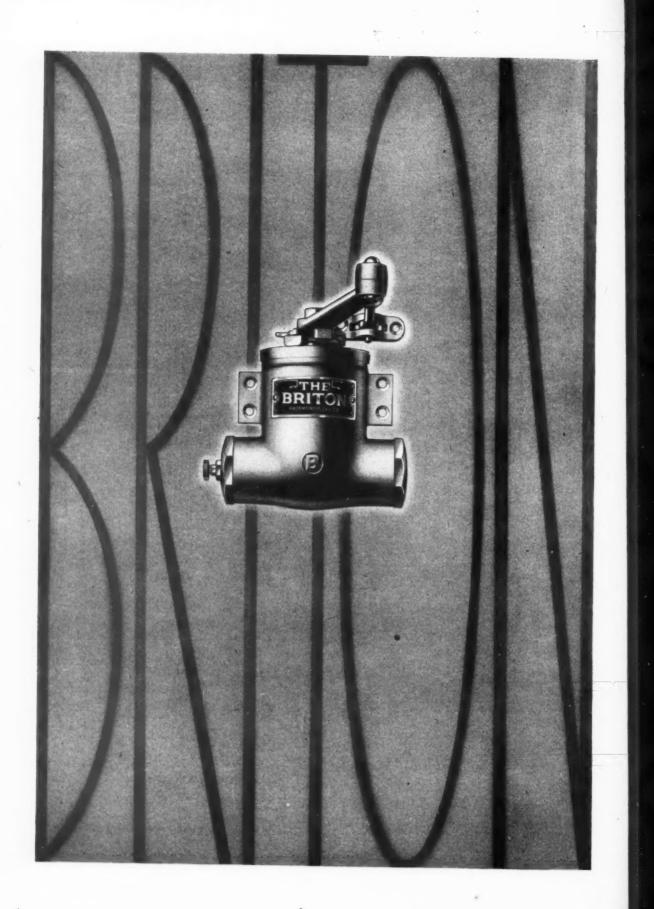
ii





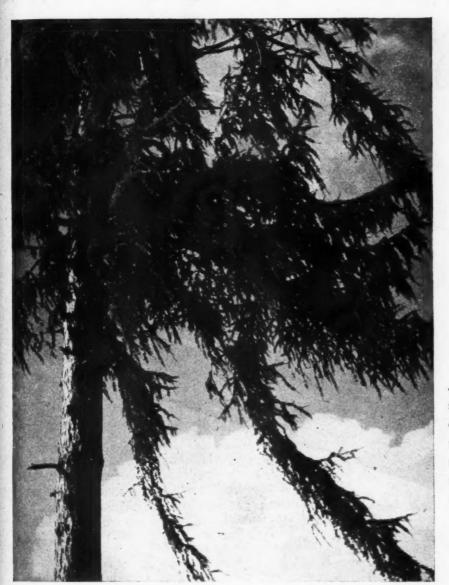


A









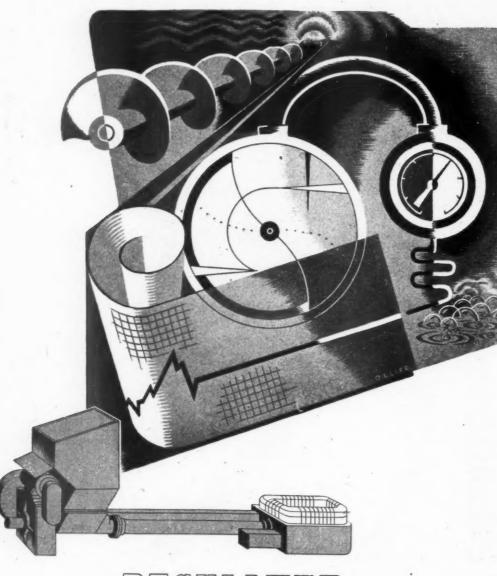
... Fine timber is regrettably scarce these days, but we manage to find it still and produce work of which the Industry can well be proud.

# The Midland Woodworking Company Ltd

#### MELTON MOWBRAY

Craftsmen in Domestic Joinery

#### BIGWOOD UNICALOR COAL STOKER



#### REGULATED HEAT and STEAM

For furnace firing, for heating boilers in institutions, hotels and public buildings, there is no letter means of firing than a Bigwood Unicalor Stoker. It gives perfect proportioning of air and fuel, instant automatic response to pyrometric or thermostatic control, and dispenses with the regular services of a fireman. You fill the hopper and leave the rest to the Unicalor.



for

m co

b tl

> v r o

> > t n a u s f

> > > atos

Tł

JOSHUA BIGWOOD & SON LIMITED · WOLVERHAMPTON

NEW

## for the Readers of "Architects Journal"

1436 NO A.R. COOKE LTD. STATION RD. SWINDON NO. 1/E 1/2 14/5/6/7/8/9/10/11/12/

Take a look at these two simple diagrams.

They embody the basic principles of the new method of co-ordinated control—shannographic control.

And because they so completely revolutionise both administrative and productive routine, they will well repay your careful investigation.

As you will see from the diagrams here is a *visual* system of individual files. Each is ruggedly constructed and suspended by metal on metal.

Each file is instantly identifiable, without thumb-fumbling. Each is colour-coded to make misfiling impossible. And each provides a full-width expanse of space for visual checkup of desirable data. (There is also an optional slotted-in record card on the front of each folder for amplification of the file's contents).

In the first diagram you see a general application. On the left is the full identification. On the right are divisions for signalling days, months or—if you prefer—percentages, sales, calls, letters for attention, credit sanctions and other such matters.

The second diagram is for production. It shows the order number, name of client,

2.25

nature of contract or order and sequence of production, progressed stage by stage. The slotted-in record card can embody production details, costs or cross-references. Within the folder go the related documents, *i.e.*, correspondence, orders, delivery notes, departmental forms, blue-prints, etc. (Note the sliding signals which slide along the flat-top to flash the needed information to the eye).

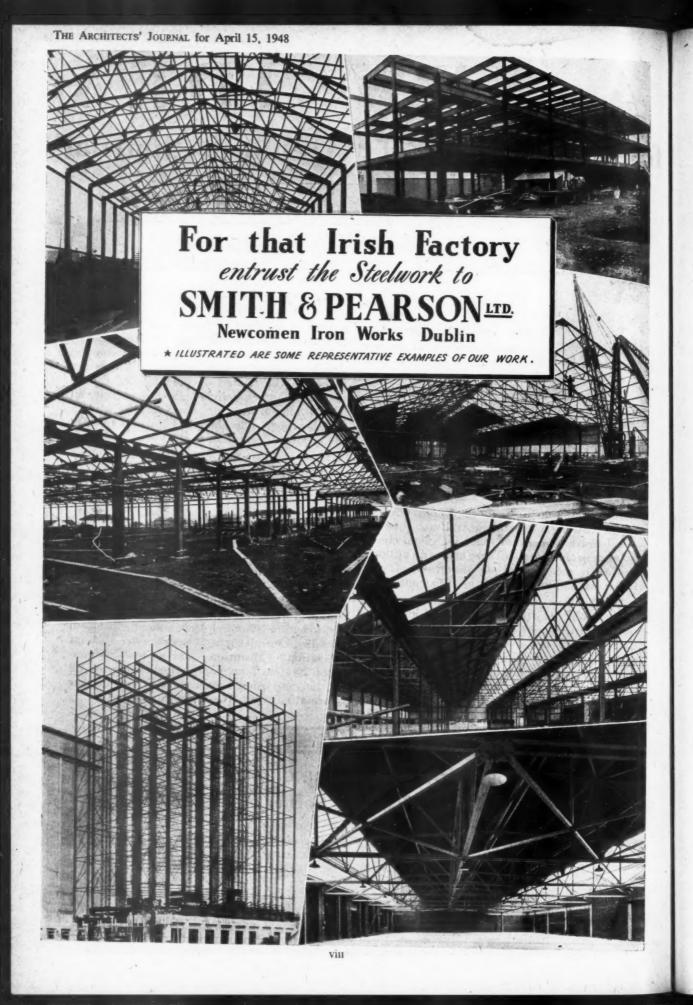
These are just two examples of the unique shannographic *principles*. These can be applied to every type of administrative or productive activity. They are being used in modern organisations of all types: by engineers, factory managers, accountants, sales managers, buyers, solicitors, Government offices, hospitals, builders, lawyers, motor traders and factories in virtually every branch of industry.

If you cannot readily perceive how to apply shannographic principles to your problems, please let our Research Department assist you. A skilled Consultant is at your service without obligation. Meantime, just write "Shannograph System" on your letterheading, or fill in the convenient space below and further information will be sent you immediately.



#### SOLVE THOSE SEARCHING PROBLEMS

Ine	Snannon	Lta	99	Shannon	Corner	INC	ew	Malden	Surrey	
I am	interested in Shannograp	hic control fo	r:							
	1. 2. 3. 4.	Advertising Sales Export Production				5. 6. 7. 8.	Accou	al Correspondence		
Pleas	e send me full details of	such special a	pplicatio	016						
	Name									
	Addre					*******				
·		•••								



# CRITTALL WINDOWS



an engineering product

MADE STRICTLY AS LAID DOWN IN BRITISH STANDARD SPECIFICATION NO. 990: 1945: DELIVERED WITHIN A FEW WEEKS BY ROAD DIRECT TO SITE: .

#### THE CRITTALL MANUFACTURING CO. LTD. BRAINTREE ENGLAND

ix

# "COMBINED OPERATIONS" SAVE MORE FUEL - says George

" If, with 100,000 square feet of corrugated roofing, I can reduce my fuel consumption for space heating from 780 tons to 180 tons per annum, simply by lining with half-inch insulating board\* surely it would pay me to use more insulation and save still more fuel."

0

This question is being discussed more and more with our technical staff and, at to-day's cost of fuel, the answer is nearly always "Yes." Before the war we regularly fixed TenTesT in greater thicknesses than half-inch, but under present conditions it is sometimes simpler to achieve better fuel saving by combining with insulating board some nonconstructional form of insulation such as quilts, blankets or foils.



" Let's save all the fuel we can," says George.

TABLE OF THERMA	L TRANSMITT	ANCES
Corrugated steel roofing,	unlined	U = 1.50
Corrugated steel roofing, insulating board	lined half-inch	U = 0.32
Do. do. aluminium foil insulation	plus double	U = 0.16

★ See Fuel Efficiency Bulletin No. 12.

and workshops at the London Airport of the Ministry of Civil Aviation, where we supplied and fixed, to the order of the Ministry, half-inch insulating board backed with double aluminium foil reflective insulation (one sheet plain and one sheet corrugated) stapled to halfinch fibre-board battens fixed to the back of the lining sheets. Owing to the extreme lightness of the foil insulation, no appreciable extra load had to be carried, and standard fixing strips were used. But the insulation efficiency was approximately doubled.

SPECIALISED CONSTRUCTION offers a complete service for the supply and fixing of insulating linings to steel-framed buildings and the fullest technical information is freely available.



EL

Hea Tele

Lon

Gla

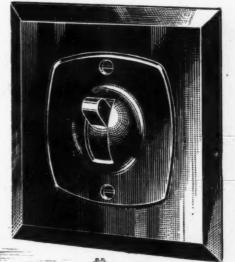
TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS. Telephone: BARnet 5501 (5 lines) Telegrams : Fiboard, 'Phone, London

We illustrate one of several large aeroplane sheds

# EFFICIENT - C "LITTLE BRITON" SURFACE, SEMI RECESSED E FLUSH TYPE SWITCHES

"BRITMAC" Electrical Accessories are made to a very high Standard of Quality. Like all first class equipment the supply of "BRITMAC" Products is totally inadequate to meet the demand.

Present day conditions are beyond our control, we look forward to better times when we shall be in the happy position to once again satisfy the ever-increasing demands of the trade.



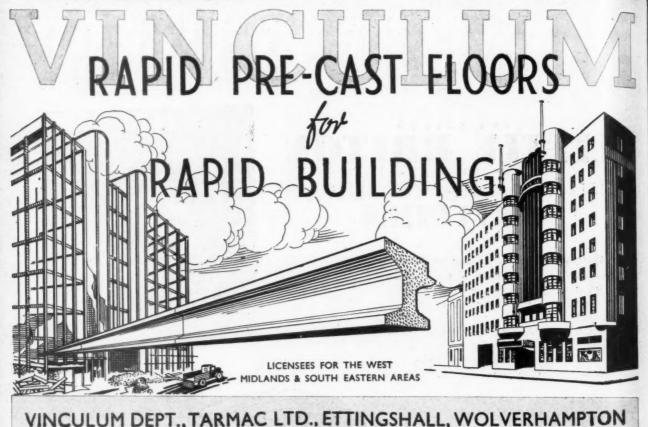
THE ARCHITECTS' JOURNAL for April 15, 1948

ELECTRICAL

ACCESSORIES







## A Special Service for Architects

In addition to supplying a wide range of Old English Fireplaces, Claygate will execute individual orders to clients' own specifications.

An experienced staff is maintained solely for this purpose, and designs will be faithfully reproduced, with all the skill and attention to detail for which Claygate is famous.

Claygate Old English Fireplaces



★ The latest catalogue of original Claygate designs for fireplaces is profusely illustrated and catalons all essential information for architects. A copy will be sent post free on request. Quotations for special designs received in the sent post free on request.

CLAYGATE FIREPLACES LTD., 7, CLAYGATE, SURREY

#### POTTERY THROUGH THE AGES · NO. 12



Specially drawn by Gordon Nicell, R.I.

#### **HISPANO-MORESQUE POTTERS**

Islamic pottery and tiles brought to Europe by traders and Crusaders influenced early Italian tin-enamelled earthenware and mediaeval English tilework. The conquest of Southern Spain by the Moors about 710 A.D., however, was destined to have a much more direct influence upon European ceramics. Their supremacy endured for nearly eight centuries, especially in Granada, where the hand-painted and lustred tiles of the Alhambra Palace are a brilliant testimony to the craftsmanship and artistry of Moorish and Persian Potters.

Tile-work was used on a considerable scale for the embellishment of buildings such as mosques, palaces and, later, churches. Green, yellow, purple, white and blue were the colours most generally employed and the tiles were pieced together in complicated geometrical patterns. Arabic script was often used with delightful effectiveness as a decorative feature.

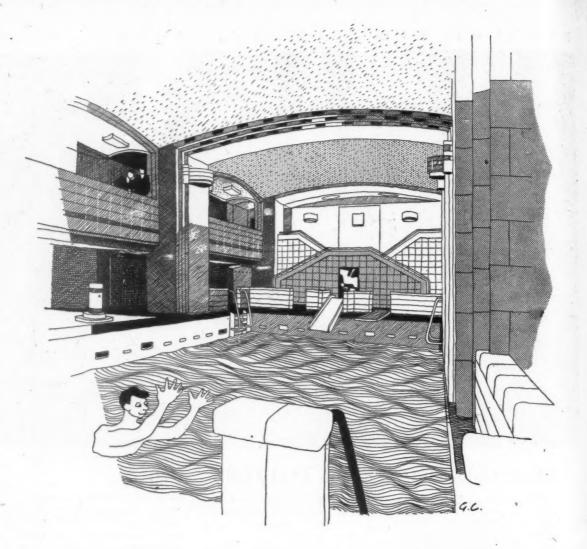
The art of lustre-painting, especially in golden-brown, yellow and blue lustres derived from metallic oxides, was developed in Valencia, Malaga, Majorca and other centres. The lustre pigments were painted over-glaze on an opaque smooth tin-enamel which masked the earthenware body.

The Moors were expelled at the end of the 15th century, but many of their potters were allowed to remain to teach the Spaniards. Roman inscriptions, hand-painted themes inspired by the Christian religion, and heraldic designs began to supersede Islamic motifs. The range of shapes included deep serving dishes, flat "chargers," bowls, plates and other domestic wares, apothecaries' drug jars, wine bottles and large storage vessels. The whole surface was often covered with decoration; yet, despite this, harmonious and balanced designs were achieved without any feeling of overcrowding.

Manises, Mislata and Paterna lustre wares, made near Valencia in the 15th century, became especially famous; by the 17th century, Talavera had become the chief centre. Orders came from all over Europe from kings, princes and cardinals, and the imported Hispano-Moresque wares unquestionably had a profound influence on the work of Italian, Dutch and English potters. From Spain, potters went to Mexico to teach Indian craftsmen and their influence



DOULTON HOUSE · ALBERT EMBANKMENT · LONDON · S.E.1 Makers of Fine China and Earthenware, Porcelain Insulators, Laboratory Porcelain, Chemical Stoneware, Ceramic Filters, Sanitary Earthenware and Fireclay, Stoneware Pipes and Conduits, etc. WORKS: BURSLEM, DUDLEY, ERITH, HANLEY, LAMBETH, STOKEON-TRENT, TAMWORTH.



R.M.S. Queen Elizabeth and T.S.S. Caronia are also Carter tiled

Tiling and faience on R.M.S. Queen Mary made and fixed by CARTER

CARTER & CO LTD · POOLE · DORSET

xiv

# DOORS

ready for delivery

## Service?

We can once more give you immediate delivery from stock of panelled doors for interior or exterior use, in all the usual sizes.

## Quality?

The name of Austins is an assurance that you will get a thoroughly satisfactory job — a hackneyed claim, but this time literally true.

## Price?

Remarkably modest by to-days standards, thanks to a factory equipped and organised for high-speed, large scale production of good joinery.

Ring up GRANGEWOOD 3444 and tell us your needs

THE

## **AUSTIN-HALL GROUP OF COMPANIES**

JSTINS OF EAST HAM LTD. Joinery Moulding Staircase manufacturers LONDON E.6 GRAngewood 3444

XV

# A 30 AMP SWITCH-FUSE



#### DWARF DIMENSIONS · GIANT PERFORMANCE

The performance, reliability and long life of equipment more than twice its size are features of MEM-AC—the new MEM all-insulated slowbreak double-pole switch and single-pole and neutral switch-fuse for A.C. applications. Made in two sizes for 30 and 60 amps, 250 volts.

#### MEM-AC'S MANY FEATURES INCLUDE:

- Breaking capacity and temperature rise fully in accordance with BS 861/1939.
- 2 Heavy silver contacts; double break per pole; adequate break in "OFF" positions.
- 3 Clear indication of "ON" and "OFF" positions.
- 4 H.R.C. cartridge fuses.
- 5 Absolute safety when renewing fuses; no tools required; all live parts shielded.

Y

a

P

S

U

R S

B

6 Simple and robust design, surprisingly few working parts.

For full particulars of this new development send for your copy of the MEM-AC folder No. 288.



MIDLAND ELECTRIC MANUFACTURING CO. LTD., BIRMINGHAM II Branches in London and Manchester

# THE KEY TO YOUR BUILDING PROBLEMS

You are cordially invited to attend the daily demonstrations of

# **KWIKFORM**

PATENTED WALL SHUTTERING SUSPENDED FORMWORK UNIT FRAME SAFETY SCAFFOLDING RISING TRESTLES SHORES AND STRUTS BUILDERS TOOLS.

MAY 3rd - 14th

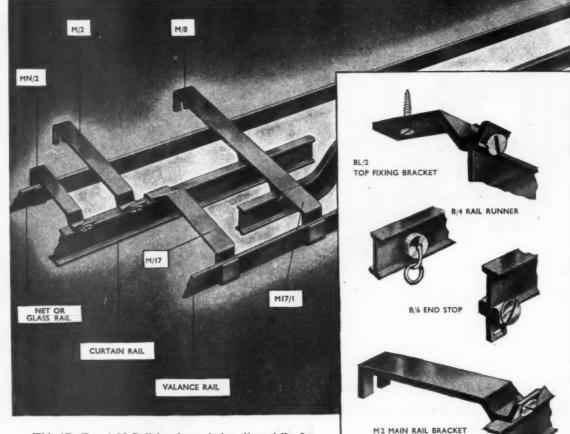
1.G.B

Stand No.

B611

KWIKFORN LTD. LONDON. 66, VICTORIA ST. S.W. I. GRAMS: KWIKFORM. SOWEST, LONDON BIRMINGHAM (SALES OFFICE) 67, WHITMORE RD. 10. GRAMS: KWIKFORM, B'HA

# Rufflette ..... M RAIL FOR METAL WINDOWS



This 'Rufflette' M Rail has been designed specially for metal windows. To minimise drilling of window frames, the valance and net rail are supported from the main rail. Special features make for quick and easy fixing. Specify 'Rufflette' M Rail for all straight or curved metal windows.

Architects' Journal: the following Information Sheets are available and will be sent on request to manufacturers.

SHEET 44 D.2. (' RUFFLETTE ' B/L and M Type Rails). SHEET 44 D.1. (' RUFFLETTE ' RECESSED TRACK). Send for specification of all 'Rufflette' curtain rails, including the new 'Rufflette' Recessed Track. CORD CONTROL SYSTEMS ALSO AVAILABLE



"M" SERIES CURTAIN RAIL Obtainable through usual Wholesalers and Builders' Merchants

THOMAS FRENCH & SONS, LTD. CHESTER ROAD · MANCHESTER, IS FACTORIES: Manchester, Wythenshawe and Fall River, Mass., U.S.A. LONDON OFFICE: 156-162 OXFORD STREET, W.I. Also ot British Empire Building, New York City.

xviii

THE

Th

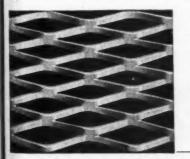
The Chicago meat barons claim

they can find a use for every part

of the pig-except the squeal!

Variety of use is not a perquisite of the pork packers. They may be able to put their pig into many kinds of cans, bags and bottles; but 50 years' experience has proved to Architects, Engineers, Builders and others the remarkable adaptability of 'Expamet' Expanded Metal — the product with countless applications. \*

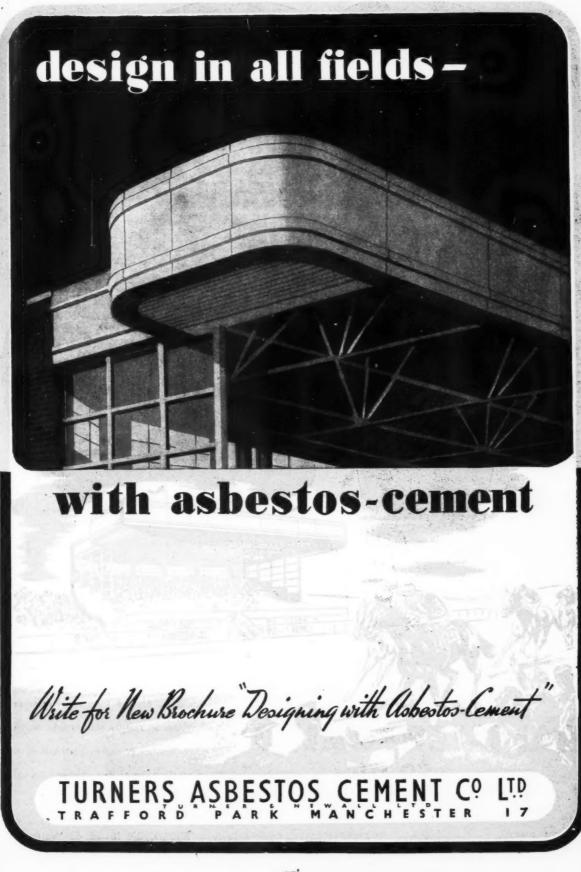
# EXPANDED METAL



★ 101 Uses — including: Reinforcement for concrete roads, foundations, floors, walls, roofs · Reinforcement for precast concrete units · Core and reinforcement for hollow concrete floors · Shuttering for concrete · Lathing for plaster partitions, ceilings · Reinforcement for brickwork · Openwork flooring and partitions · Coal and coke screens · Guards for machinery, trees, windows, fires · Baskets for waste paper, letters · Lockers · Sieves Gas grill frets and heater elements · Toasters · Framework for coaches and lorries · Air filters · Radio set panels · Gates and fencing panels Stage settings · Shop window and exhibition displays.

THE EXPANDED METAL COMPANY LTD. BURWOOD HOUSE, CAXTON STREET, S.W.I. WHITEHALL 1736 STRANTON WORKS, WEST HARTLEPOOL HARTLEPOOL 2194

Constructional Headquarters TIPTON  $\mathcal{F}_{ extbf{ROM}}$  the HORSELEY-PIGGOTT Works at TIPTON, Staffordshire, Constructional Steelwork for Bridges, Steel Frame Buildings, Piers, Jetties, Gas, Water and Chemical Works is supplied to any part of the world. Engineers in all countries recognise the unrivalled reputation of HORSELEY - PIGGOTT products, and the efficiency of our designing, planning and executive staffs. Your enquiries for Structural Steelwork for export to any country will receive our immediate and careful consideration. **HORSELEY-PIGGOTT** HORSELEY BRIDGE & THOMAS PIGGOTT LTD. HORSELEY WORKS, TIPTON, STAFFS. ' PHONE: 1104 P.B.X. LONDON OFFICE: 157, VICTORIA STREET, WESTMINSTER, S.W.1





T'S a comforting thought that in this land where almost every faculty we possess is controlled and directed, the stork carries on his job free and unhampered.

And as long as man breeds, man will build, whether he makes a hut out of mud or erects a tower that scrapes the skies.

& CO. LTD STRUCTURAL STEELWORK

BANISTER, WALTON

RIVETED \* WELDED

LONDON, S.W.I - 82 Victoria Street

MANCHESTER 17 - Trafford Park

BIRMINGHAM 18-61-63 Western Rd.



THE FACTORY OF HOLOPLAST LIMITED, NEW HYTHE, KENT. Architect: Denes Pogany, Esq., A.R.I.B.A.

## FACTORY thermal & acoustic INSULATION

at low cost with good appearance

In this light-weight roof, MARLITH SLABS are supported over steel purlins by transverse and longitudinal "tee" pieces of pressed steel, the latter being secured to the purlins by clips. The roof finish consists of a  $\frac{3}{4}$ " cement and sand screed and 2 layers of I-ply felt. The underside of the Marlith Slabs is finished with "Snowcem"

MARLITH Wood Wool Building Slabs conform to B'S'1105 and are made in the standard sizes of 6' o" x 2' o" x 1",  $1\frac{1}{2}$ ", 2" and 3". The slabs give an excellent key for plaster or cement rendering. These light weight slabs provide a high degree of thermal and acoustic insulation when used for lining walls or roofs. Slabs of 2" or more thickness can be used as self-supporting non-loadbearing partitions

#### MARLITH Wood Wool Building Slabs

THE MARLEY TILE COMPANY LTD. SEVENOAKS KENT. Works throughout the country

MARLITH SLABS

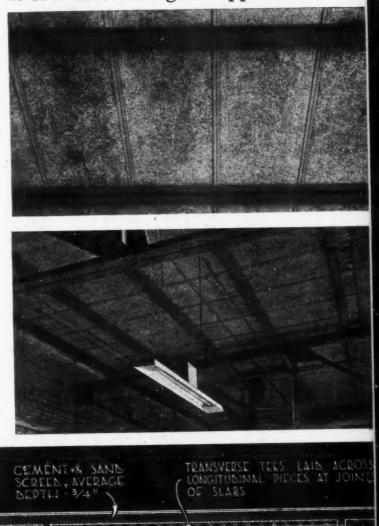
TEEL

S.J. PURLIN

M.M.I

UNDERSIDE OF COM-PLETED DOOF FINISHED WITH 'SNOWCEM' PRESSED STEEL

YEDS OF



30 bs

650 0 2

0

S Ř H 00

REEP

#### 2 PIPES

is Silver-Copper-Lead B.S. 1085 A is ordinary Lead B.S. 602 B

These are the advantages of A

5 4

Greater Creep Resistance ' 15% greater tensile strength ' Lighter weight per yard of pipe ' Greater length obtainable per cwt. of material ' Lower cost per yard of pipe.

LEAD

ESTS ON FR-COPPER-LEAD AND

PIPES

COPPER LEAD : LOAD 650

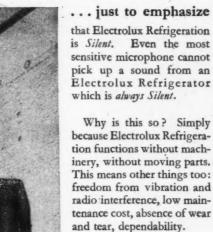
OAD

Silver - Copper - Lead possesses similar working properties to ordinary lead pipe and is increasingly used in place of this material for supply and distribution piping. For further information see leaflet "Practical Economy by the use of Silver-Copper-Lead" which is obtainable from the Lead Industries Development Council.

The Technical Information Bureau of the Lead Industries Development Council, which exists to give assistance on problems relating to the use of lead sheet and pipe in building work, will be pleased to give advice on any questions relating to the present uses of the materials.

LEAD INDUSTRIES DEVELOPMENT COUNCIL, EAGLE HOUSE, JERMYN STREET, LONDON, S.W.1 LEAD TECHNICAL INFORMATION BUREAU, 25 LOWER BELGRAVE STREET, S.W.I. Telephone: SLOane 0474

why the microphone?



Incidentally, here you can see for yourself how much perishable food the 11 cub. ft. Electrolux can take. Nothing is left out that matters.

And for larger homes there will be larger Electrolux Refrigerators of this type as well as free standing models.

Electrolux 'built-in' Silent Refrigerators operate equally well by gas or electricity. They fit into any kitchen plan and can be built into modern kitchen furniture at any beight.

Electrolux



REFRIGERATORS



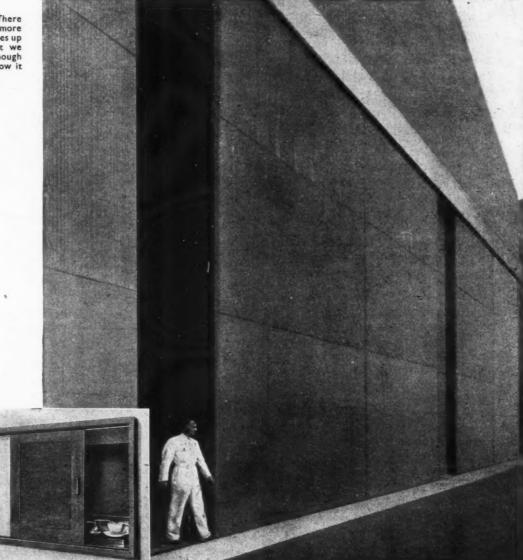
rovds 44/2

ELECTROLUX LTD · LUTON · BEDS. Head Office: 153/5 · REGENT ST. · LONDON · W.I Also manufacturers of the world famous Electrolux Quiet Suction Cleaners



# KING SLIDINAL for April 15, 1948 DOOR GEAR

NOTE! There is much more door—it goes up and up, but we haven't enough space to show it all.





Small illustration above left shows King Sliding Door Gear applied to a small serving hatch. The large illustration above right shows part of a range of King Power Driven doors installed in a factory. Each door is 20ft, wide and 30ft, high and weighs 4 tons. Each pair of doors is power driven and fitted with two-speed motor. Travel is controlled by safety limit switches. For emergency, auxiliary hand winding gear is incorporated. Whether a King installation is large or small the same degree of engineering excellence is embodied in the product. For ease of operation, neat appearance and long life, specify King Sliding Door Gear.

A DOOR THAT RUNS ON KING SLIDING DOOR GEAR IS A GLIDING EXAMPLE OF PERFECT SMOOTH RUNNING.



xxvii

Leonardo..

had

answer..

The most brilliant and far-seeing genius the world has known excelled at painting, music, sculpture, aeronautics, architecture, mathematics, hydraulics. Leonardo da Vinci lived nearly 500 years ago, yet his engineering innovations are still of great importance to-day.

the

A similar refusal to wait for the ideas of the man round the corner is behind the development of Arens Controls, which provide answers to the window control problems encountered by modern architects. Batteries of top-hung ventilators, roof-lights or tall windows respond silently and smoothly to an easily operated slide or handle. The neat simplicity of Arens regulators agrees with the contemporary interior.

The Arens system of window control is an important contribution to scientific building where the architect plans for generous natural lighting and ample ventilation. ARENS COMPACT GEAR .BOX Arens Compact Gear Box requires only one-third of the space of a standard Worm Gear operator.

Worm and sliding members are totally enclosed. Has a pleasant streamlined appearance. An indicator which can be engraved to suit the customer is included.

EMOTE

For

ASH

BEN

CRI HAI HOI

Loo

Sé

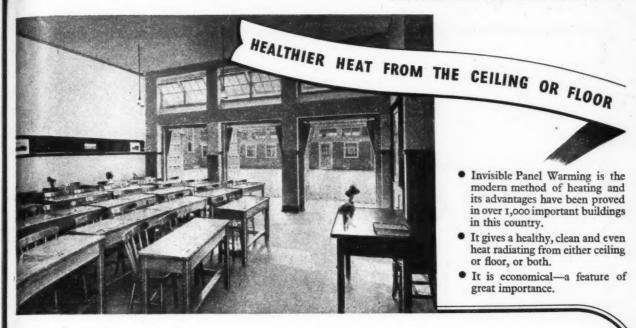
ARENS CONTROLS LTD., TUNSTALL ROAD, EAST CROYDON, SURREY. Telephone: Addiscombe 3051/4. Telegrams: Unicontrol, Phone, London

Regd. Trade P

CON

PATENT

RENS



# **Invisible Panel Warming**



- That Invisible Panel Warming in the ceiling leaves the whole floor and wall area free is shown in the illustration of a Schoolroom furnished and unfurnished.
- It is important to decide on Invisible Panel Warming at an early stage when planning the new permanent buildings.
- Any member listed below will be pleased to supply detailed information.



# IS NOW AVAILABLE

At the new De La Rue factory at Tynemouth the production of FORMICA in a range of colours and finishes has now commenced and good delivery dates can be given for this quality material. This is indeed excellent news for all Designers, Architects and Interior Decorators who know so well the qualities of FORMICA... the Decorative Material of the Future.

\* Formica A decorative Laminated Plastic of great beauty possessing physical properties which give it a wide field of usefulners in every type and sphere of modern interior decoration. It is also produced in a 'Cigarette proof' grade which is the final answer to the eigarette-burn menace.

#### Write today for full details

#### De La Rue Insulation Ltd.

 IMPERIAL HOUSE, 84/86, REGENT STREET, LONDON, W.I, ENGLAND

 TELEPHONE: REGENT 2901.
 CABLES: DELINSUL, LONDON

In commo pre-war co subscriber

DI

Titles of papers by the

M

A SCOT ing. shire C port fi Intendin mediatel Hill, M William 3714.) BIRM

C AR

A

and F 7 p.m. GLAS F Hall, C

P. O. Constr Gradin Scottis Street, RIAS. P. O

Centre sor, G p.m. LEIC of Ar

LON House

Thor ings. tural Street Trust

Ville of de Own petiti Stree

S. Weld Work Scho Kepy (Spo

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	ΙΑ	R	Y	1	FO	)- R	A	P.I	RI	L
M	Α	Y		Α	Ν	D	J	U	Ν	E

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

A SCOT. Building and Allied Trades Golfing Association Spring Meet-ing. On the course of the Berk-shire Golf Club, Ascot. Special trans-port facilities have been organized. Intending players should communicate im-mediately with the Hon. Secretary, Hubert Hill, Monument Station Buildings, King William Street, E.C.4. (Mansion House 3714) (Sponsor BATGAL APPL 27 3714.) [Sponsor, BATGA.] APRIL 27

RIRMINGHAM. British Industries Fair. At Castle Bromwich. (Sponsor, BOT.) MAY 3-14

CARDIFF. Design Week. (Sponsor, UNTIL APRIL 17 CID.)

EDINBURGH. E. H. B. Bolton. Timber. (Sponsors, TDA and Clerk of Works and Foremen's Association of Scotland.) APRIL 15 7 p.m.

GLASGOW. Scientific Engineering Fuel Efficiency Exhibition. At Kelvin Hall, Glasgow. UNTIL APRIL 17

P. O. Reece. Timber as a Material of Construction, with Some Aspects of Stress Grading and Jointing of Timbers. At the Scottish Building Centre, 426, Sauchiehall Street, Glasgow, C.2. (Sponsors, TDA and VIAS) 530 p.m. RIAS.) 5.30 p.m. APRIL 15

P. O. Reece, *Timber*. At the Building Centre, Sauchiehall Street, Glasgow. (Spon-sor, Glasgow Institute of Architects.) 5.30 p.m. APRIL 18

LEICESTER. R. T. Walters. Designing in Timber. At the Leicester School of Architecture. (Sponsor, TDA.) 3.45 p.m. APRIL 26

L ONDON. R. P. Woods. New Decor-ative Woods. At MOW, Union House, E.C.1. (Sponsor, TDA.) 3 p.m. APRIL 15

Thomas Ritchie. The Sunitation of Build-ings. Bossom Gift Lecture. At the Architec-tural Theatre, University College, Gower Street, W.C.1. (Sponsor, the Chadwick Trust.) 2.30 p.m. APRIL 15

Village Planning Exhibition. Exhibition of designs submitted to the Central Land Owners' Association Village Planning Com-petition. At the RICS, 12, Great George Street, S.W.1. (Sponsor, Central Land-owners' Association.) UNTIL APRIL 16

S. M. Reisser. The Influence of Arc Welding in Single Storey Factory and Work Type Buildings. At the London School of Hygiene and Tropical Medicine, Kepple Street (Gower Street), (Sponsor, IAAS.) 6.15 p.m. W.C.1 APRIL 20 T. Alwyn Lloyd. The South Wales Outline Plan. At the Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPL) 5.30 p.m. APRIL 22

One-Day Conference on Current Problems of Local Authority Housing. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) APRIL 23 Exhibition of Housing Work of Wandsworth Borough Council. At the Housing Centre, 13, Suffolk Street, S.W.1. APRIL 23-MAY 14

W. J. Woolgar. Plumbing and Hygiene. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch, 12.45 p.m.-1.15 p.m., 2s. 6d. Talk, 1.15 p.m.-2.15 p.m., 6d. APRIL 27

Dr. N. Pevsner. German Art of the Goethe Period. At the Courtauld Institute of Art, 20, Portman Square, W.1. (Sponsor, The Courtauld Institute.) 5.30 p.m. APRIL 27 and MAY 4

Inn Crafts Exhibition. Interior decoration and furniture design for licensed premises. At the RBA Galleries, 6<sup>1</sup>/<sub>2</sub>, Suffolk Street, S.W.1. (Sponsors, CIAD for Brewers' APRIL 27-MAY 13 Society.) R. W. Symonds. Craftsmanship in Furni-ture-Traditional and Modern. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. APRIL 28 (Sponsor, Roha) *RIBA Annual Reception*. At the RIBA, 66. Portland Place, W.1. (Sponsor, RIBA.) APRIL 30 RIBA Annual General Meeting. At the RIBA, 66. Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MAY. 3 British Industries Fair. At Earl's Court, Olympia, and Birmingham. (Sponsor.

BOT.) MAY 3-14 Thomas Sharp. Oxford Replanned. the Housing Centre, 13, Suffolk Street, S.W.I. (Sponsor, HC.) Buffet lunch 12.45 p.m. 1.15 p.m., 2s. 6d. Talk 1.15 p.m.-2.15 p.m. 6d. MAY 11

MANCHESTER. Building Trades Exhi-bition. In the City Hall, Deansgate, Manchester. (Sponsor, Provincial Exhibi-tions, Ltd.) 11 a.m. to 9 p.m.

UNTIL APRIL 17

STOKE-ON-TRENT. Demonstration of Builders' Plant and Power Hand Tools. On the housing scheme at Riverside Road, Trentvale, Stoke-on-Trent. (Sponsors, Mid-land Regional Joint Production Committee for the Building Industry, in conjunction with MOW.) 11 a.m. to 5 p.m. UNTIL APRIL 15

WOLVERHAMPTON. Centenary In-W dustrial Exhibition. (Sponsor, Borough of Wolverhampton.) APRIL 17-24

TA TT	V V		D
Thursday, No. 2775	April	15, Vol.	
News	•		341
New Light on Old 1	Masters		342
This Week's Leading	Article	• •	343
Astragal's Notes and	Topics		344
Letters from Readers			345
Lighting the Nationa	I Gallery	1	346
Information Sheets :			
<ul> <li>43.Z1 Flexom Cubicle : La Cubicle</li> <li>26.E1 West's Co Tubular Shell Pi</li> </ul>	ncrete		face 346
Reconstruction of the J. Hubert Worthing tect to Inner Tem Young, Architec Middle Temple. Maute, Consultant Shopping Centre in Designed by T. I	gton, Ard ple. Cly t to (Edw t) Portsmou	the ard	347
City Planning Arc	hitect	an,	350
Societies and Institut			353
Flats at Neasden. 1 L. Keir Hett, of Searle	Designed	by and	355
Technical Section :			
Information Centr	e		356
Housing, Materials a By Ian Bowen	and Labo	our.	359

TA7

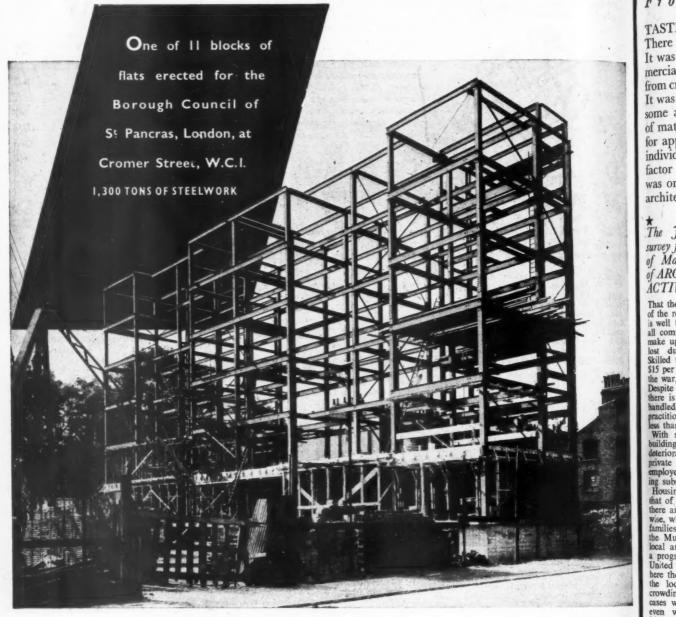
Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

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

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

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

The Minister of Town and Country Planning and the Secretary of State for Scotland have appointed the following to be members of the CENTRAL LAND BOARD for the period April 1, 1948, to March 31, 1950: Sir Malcolm Trustram Eve, Bt., M.C., T.D., K.C. (Chairman); Sir Ernest Basil Gibson, J.P.; Miss Myra Curtis, C.B.E.; Mr. Henry Wallace Guthrie, K.C.; Mr. Alexander MadDonald; Mr. James Rankin Rutherford, C.B.E., F.C.I.S., J.P.; Mr. Luke Fawcett, O.B.E. The membership of the Board, which also consti-utes the Word Demogra Commission is there tutes the War Damage Commission, is there-fore the same as announced in November, 1947, with the exception of Sir George Etherton, who has left, and Mr. Fawcett, who is a new member.



Architects: Robert Hening, M.B.E. Anthony M. Chitty, M.A., F.R.I.B.A., A.M.T.P.I., Town Planning Consultants.

General Contractors : Stewart & Partners, Ltd. 105 Baker Street, London, W.I.



CRAFTSMEN IN THE DESIGN & ERECTION OF STEEL STRUCTURES

LONDON . NORWICH . BIRMINGHAM

Fro

TAST. There It was mercia from ci It was some a of mat for ap individ factor was or

The j survey j of Ma of ARC

> That the of the ris well all com make uj lost du Skilled \$15 per he war Despite here is andled ractitio ss that uilding eterior private nploy ing sub Housin hat of there an wise, wi families the Mu local an a progi United here the the loc crowdin cases w even v Malays groups or sma small a time, Comm ture o publicit usually an am Shangh front hardly conside cence Singapo duced and, w adhere school kinds been I meet trained institut The the au

### From AN ARCHITECT'S Commonplace Book

TASTE AND TECHNIQUE. [From The Regency Style, by Donald Pilcher (B. T. Batsford Ltd.).] There was one practical consideration above all which affected the trend of contemporary taste. It was one which was implicit in the early nineteenth-century background of England's rapid commercial expansion, and, as an influence on architectural appearances, it took the form of a changeover from craftsmanship to factory production. For industry was not only producing new building materials. It was also producing them in a new way, which, whether they liked it or not, architects had to take some account of. Architects whose traditions of practice had been built up on the limited range of materials available were now faced with the use of new materials, with no traditional precedent for applying them. For these were materials whose final appearance was no longer decided by the individual touch of a craftsman, but by the standardizing stamp of the machine. How was this new factor of "mass-production" to be reconciled with the canons of contemporary "Taste"? This was one of the most important of the questions which contemporary conditions forced the Regency architect to answer.

#### The JOURNAL has received a survey from the Institute of Architects of Malaya of the present position of ARCHITECTS AND ALLIED ACTIVITIES IN MALAYA.

That the country is still under the influence of the repercussions of Japanese occupation is well testified by extremely high prices in all commodities and a feverish anxiety to make up for profits which may have been lost during the period of occupation. Skilled tradesmen may claim from \$10 to \$15 per day in contrast to \$3 per day before the war, the dollar being valued at 2s. 4d. Despite this enormous increase of rates there is more work available than can be handled by private architects and very few practitioners will accept commissions of less than \$50,000.

with so much work on hand the actual buildings now in course of erection show a deterioration in quality and there are many private architects who would normally be employed in a minor salaried capacity enjoying substantial incomes.

employed in a minor salaried capacity enjoying substantial incomes. Housing progress in Malaya, especially that of Europeans, is in a parlous state and there are very few houses, official or otherwise, which are not shared by one or more families. Regarding the housing of Asiatics, the Municipality of Singapore and various local authorities are pressing forward with a programme of building based upon the United Kingdom prefabrication system, but here the problem is not nearly so acute, for the locally-born population accept overcrowding with equanimity and there are cases where extra rooms will not be used even when available. In any case, the Malays or Chinese belonging to low social groups organize themselves into Kampongs or small villages and when any housing problem presents itself they are able to build small attap huts within a short period of time.

time, Commercial architecture and architecture of a public nature is given more publicity in the press than its importance usually warrants, but this is largely due to an ambitious Council wishing to emulate Shanghai in creating an impressive water from to Singapore. Town planning has hardly began to walk in Malaya, and some considerable time may elapse before adolescence becomes evident. Nevertheless, the Singapore Improvement Trust have produced new proposals for town improvement, and, wherever possible, new street lines are adhered to. There is a great shortage of schools, hospitals and clinics of various kinds and the restriction of building has been principally due to lack of funds to meet the exorbitant cost, and shortage of trained personnel to man each respective institution.

The task that is at present confronting the authorities is to compromise effectively between the project and the recruitment of new staff. An interesting side issue is the Community Centre principle with special reference to Malays. The Malays demonstrate a decided preference to live in communities and in order to develop the community spirit, the Social Welfare Department must first overcome the natural Malay indolence. It is proposed that each individual Kampong should build its own centre and organize its own group whilst financial resources for the purchase of materials are provided externally. Malaya has little to contribute in the amusement field of architecture. There are many cinemas in the course of construction, but headly can worthy of illustration. They

Malaya has little to contribute in the amuscment field of architecture. There are many cinemas in the course of construction, but hardly any worthy of illustration. They are all connected in some degree with the Arthur J. Rank organization, but cinema design, despite this influence, is sadly behind Europe. There is a type of amusement park not encountered in Europe. It caters principally for the Chinese and contains cinemas, halls of boxing and wrestling, various stalls and cabaret. The buildings are of exhibition character and the only interesting features are the Chinese symbols generously adorning the structure. Malaya has become very sport conscious and an important soccer game may draw a mixed crowd of Chinese, Indians and Malays comparable in size to an average English First Division match. It is not unlikely that a sports stadium may be erected in the near future to accommodate such members.

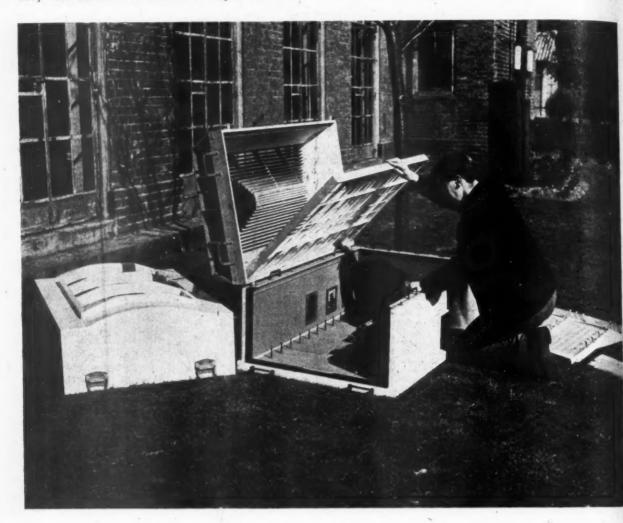
The new Marine Airport of British Overseas Airway Corporation at Berth 50, Southampton, was opened by Lord Nathan, the Minister of Civil Aviation, on April 14. It will take the place of Poole as the Corporation's flying-boat terminal. The new building is L-shaped and will permit of incoming and outgoing passengers being handled simultaneously without the two sets of passengers converging. Incoming passengers will go from the arrival space to a railway platform behind the buildings, from which a spur joins the main railway line to London. Outgoing passengers will be under cover while on their way to the flying-boat at the dockside.



On April 6, at the RIBA, M. Auguste Perret was formally presented with the Royal Gold Medal for Architecture by the President, Sir Lancelot Keay. The ceremony was attended by the French Ambassador. M. Perret is the ninety-ninth recipient of the Royal Gold Medal.

.C.E.

ES



## New Light on Old Masters

The lighting of picture galleries always presents very special and peculiar problems, which are not rendered less complex when an existing lighting system has proved unsatisfactory and requires modification. This is the case at the National Gallery, where, at the request of the Ministry of Works, the Building Research Station has made a study of the problem in preparation for the reconstruction of some of the Gallery's war-damaged rooms. A model showing the results of the BRS investigation was on display last week in the annual exhibition of the Physical Society at the Imperial College of Science and Technology. The proposed lighting arrangements have been designed with the Gallery's need for air-conditioning also in mind. The photograph shows the model being examined by Mr. J. B. Bickerdike, A.R.I.B.A., who, as a member of the BRS combined team of architects and physicists, was mainly responsible for the actual design. More photographs and an account of the experiments are on page 346.

The Minister of Education, the Right Hon. George Tomlinson, will open the NEW SCHOOLS EXHIBITION at the RIBA on the afternoon of May 25. The exhibition will be open to the general public from May 26 to June 19, weekdays 10-6, Saturdays 10-5. The preparations for this exhibition are now well advanced. The Institute has been collaborating with the Council of Industrial Design, and in addition to models, photographs and plans of schools designed since the 1944 Act, examples of furniture and school equipment will be shown. The equipment and furniture has been selected by the Council of Industrial design, and will include some examples from abroad. Although this exhibition will be small, only the Florence Hall being available, the central feature of the exhibition will

be a standard size classroom fitted with furniture and equipment. In the classroom itself, projector equipment, lent by the Educational Supply Association, will show, by means of a film strip specially prepared for the exhibition, a large number of examples of school buildings and equipment, mainly from abroad, which it has been found impossible to include in the actual exhibition itself. Although the exhibition is intended for the general public, it has, together with the handbook, been so designed as to give much interesting information to those with more technical knowledge. There are four main sections: Historical, Legislation, Schools which have been completed in accordance with the Act or approved for immediate construction, and finally a Technical Section. In particular, the main section of the exhibition shows the varied solutions which architects have been able to make while working to the standard requirements of the Act.

On April 28 the Bishop of Winchester will dedicate in Selborn church FOUR PAINTED GLASS ROUNDELS which have been given to the church by Lord Stamford. The roundels have been erected in the central light of the north transept window by Mr. Hugh Easton. Attributed to the sixteenth or seventeenth centuries, the roundels are fine specimens of the painted glass of the period. The top one shows the arms of the White family. The second roundel, placed on the left below the arms of White, shows Joseph recounting his dream and the third roundel, placed below on the right, is thought to depict Solomon receiving the Queen of Sheba. The fourth rounde, placed below the others, shows St. John Baptist.

IORD the BR AUTH mnual ELEC MEN said tha elec The auti were not. that there resources e anyth mable th lectricity when the would be of either the load period th The spee the assoc having the recorded. good wis said the and anti

> The WORL SAND It is to Common common which, S OCTUS. Memori rememb and reg and a n a memori Those r Woolwi Sandhu in a ne

> > NEW

St.

near D Evelyn restored appealin needed The from t

tend t in Lor income Hillier Bath

Piccad execut syndic and M the pr use as

Neg for th Donca area, station South near

Cast has b Scotla THE ARCHITECTS' JOURNAL for April 15, 1948 343

#### LORD CITRINE, chairman of the BRITISH ELECTRICITY AUTHORITY, speaking at the annual luncheon of the BRITISH ELECTRICAL DEVELOP-MENT ASSOCIATION. said that there would be a scarcity

of electricity for years to come. The authority's programmes for 1948-49 were not going to be disturbed, but beyond that there would be a period of diminishing resources in generating plant. He could not resources in generating plant. He could not see anything at the moment which would enable them to find that abundant supply of electricity that was so much talked about when the Act was going through. There would be a policy for some time to come of either spreading the load or shedding the load. We had to look ahead to a period that was on the whole depressing. The speech of Lord Brabazon, president of the association, who is in a nursing home the association, who is in a nursing home having treatment for an injured knee, was recorded. In wishing the new authority all and wishes and good luck, Lord Brabazon said the " nation looks forward with anxiety and anticipation to Watts to come."

The design of the SECOND WORLD WAR MEMORIAL AT SANDHURST has been approved. h is to commemorate all the officers of the Commonwealth, whether trained at Wool-wich, Sandhurst, or one of the war-time OCTUs. The memorial, in the Sandhurst Memorial Chapel, will consist of a book of remembrance, oak pews, with crests of corps and resiments, carried, on parels and areas and regiments carried on panels and ends. and a new organ and screen, which is to be a memorial to officers of the Indian Army. Those memorials which can be moved from Woolwich Chapel will be transferred to Sandhurst Chapel, where they will be placed in a new wing.

#### NEWS IN BRIEF

/sical

logy. igned

nind.

Mr.

BRS

ainly

and

Win-

borne

ASS

given ford.

n the

indow

o the

ainted

vs the econd

arms ream;

n the

eiving indel, John

the

St. John's Church, Wotton near Dorking, in the chapel of which John Evelyn is buried, is to have its interior restored and damp-proofed. The parish is appealing for help in raising the £2,500 Wotton needed.

The purchasers of Littlehampton from the Duke of Norfolk in 1940 now in-tend to have the estate offered by auction in London. The actual and estimated gross income is £14,200 a year. The agents are Hillier, Parker, May & Rowden.

Bath House, Bolton Street, Piccadilly, has been sold by Lady Ludlow's executors. The purchasers were a London syndicate, represented by Messrs. Goodman and Mann, who, acting for them, have let the premises to the Distillers' Company for use as offices.

Negotiations are proceeding for the erection of a large power station at Doncaster. The site proposed is a large area, near the present Corporation power station, bounded by the River Don, the South Yorkshire Canal, and a road running near the British Railways plant works. Doncaster.

Castle Douglas, Kircudbrightshire has been given to the National Trust for Scotland by Major Alan Gordon.

### THE STATE OF THE PROFESSION

URING the past few months it has been proposed more than once that some enquiry should be made into the prospects for architects-and particularly for

private architects-during the coming two or three years. The Economic Survey for 1948, which forecasts a decline of nearly a fifth in building and civil engineering work during the next 18 months, suggests that if an enquiry was thought desirable a few months ago it is far more desirable now. What is required is a general enquiry into the present structure of the profession, the changes that have taken place since 1938, the rate of recruitment and future prospects, both short term and long term. Only a comprehensive review of this kind, for which plenty of time and resources are available, offers a fair prospect of solving the dozen or so tough and interconnected problems which now face the profession.

These problems result from several different kinds of change and may be summarized in the following way. Up to 1038 conditions both of private practice and public employment had changed little in 10 or 15 years and nine-tenths, if not nineteen-twentieths, of all architects were engaged in what may be called normal architectural work. The past ten years have seen the retirement of many senior men belonging to the pre-war systems; new men and new ideas have had the way cleared for them. In the older public offices pre-war arrangements may linger, but the many new openings for architects in public employment have given plenty of opportunity to try new methods of organization and new ideas in design and construction. Similar changes have taken place in private practice, in which there is a marked trend towards "group practice" - three or four principals and three or four assistants working together much more closely than was often the case before the war.

A number of problems arise out of all these changes. There is the short term question of actual unemployment with which sections of the profession are now threatened, and there are several longer term questions. One is the attraction of architects into town and country planning. The number must run well into the hundreds and will probably increase. This is a development of great significance. Again, there has been practically no building work needing first-class craftsmanship done in this country for a decade and even ordinarily good craftsmanship (in 1938 terms) has become extremely rare. When practically no opportunities exist for students and young architects to see good work under preparation in workshops or being set up on the job their ability to design, specify and supervise such work in the future is seriously threatened. Every architect visitor to Switzerland and the USA and Sweden emphasizes the seriousness of the threat by his repeated praises of foreign standards of craftsmanship.

#### 344] THE ARCHITECTS' JOURNAL for April 15, 1948

Finally, and bound up with the changes that have been listed above, is the undoubted tendency-temporary or permanent -for more architects to find employment as " controllers " and fewer as creators ; for more to enter public employment of one kind or another and fewer to enter private practice. In our view these various changes more than justify a comprehensive enquiry. So far the profession's attitude on the matter, as indicated by the RIBA, has seemed to amount to a desire not to appear to be adding to the Government's difficulties, while making an occasional semi-private representation about prospects for architects. This approach is neither broad enough nor even a right one in a narrow sense. The RIBA's duty is to architecture and the future of architecture as well as to architects. It should therefore examine national policies in a most searching manner and make public the results. It should ask a number of persons, both architects and others, who will have the full confidence of the public and the profession, to enquire generally into the changes that have taken place since 1938 in the work being done by those who are qualified as architects, including conditions and organization of work, and to make recommendations with a view to ensuring that the capacities of the profession are used to the fullest public advantage.



The Architects' Journal 9, 33 and 33, Queen Anne's Gate, Westminster, S.W.S Phone : Whitehall 0612



PEOPLE WHO LIVE WITH GLASS TABLES Main feature of the provincial city "Design Weeks," sponsored by the CID, will be a travelling "Design Fair" (see illustration) consisting of a collection of collapsible booths designed by a team of artists under the direction of James Gardner. At the Press conference held last week to launch this admirable project, guestspeaker Mrs. Hugh Dalton took the opportunity of putting over in a brisk, smooth speech the fashionable fallacy that you can always trust the natural good taste of the common man. "We have at home," she said, "a glass-topped dining table. My friends thought it *outré*, but the local villagers at once appreciated how handsome and sensible it was."

With all deference to Mrs. Dalton, this proves nothing except that she possesses a dining-room table which, though glass-topped, may or may not be well designed, and that the villagers may have genuinely liked it more than her friends, or may have been less inclined to admit disliking it. It is surely the sharpest self-deception to believe that the taste of the uneducated man can be anything else than uneducated. The innate good taste of the working classes is a myth as unreal as the allegedly faultless taste of the primitive savage. Any savage would prefer, if he could get them, a turkey-carpet and a pinkanodised statuette of an Aberdeen terrier to the woven mat and rudely carved household goods with which he perforce furnishes his unmodish hut. Similarly, the uneducated man for the most part buys products which, though they lie within the limits of his purse, resemble as closely as possible the products bought by what used to be called

"his betters." When "his betters" were cultivated men, obeying certain rules of taste (as in the eighteenth century), then good taste penetrated downwards. When "his betters" are less easy to discover, or are merely richer and not more cultivated than he is, naturally his choice becomes confused and tasteless.

How are you to raise the level of taste? Not, surely, by trying to put over the theory that there is nothing to good design that an ordinary chap can't take in. "Good design," says the "Design Fair's " leaflet in half a dozen type faces and as many colours, " can be good fun." This is the repellent argot of the women's weekly "glossies" and means nothing. "Design," says another CID leaflet, "is what makes a thing easy to make, easy to use, easy to look at." This is frankly untrue. A Chippendale chair, a Murphy radio, a Mosquito aircraft are not easy to make. Nor necessarily is a good kettle, nor a shapely toothbrush. And most people would, I think, agree that it is not "easy" to appreciate, without knowledge or training, the good visual qualities of any product.

While on this subject, let me take the opportunity to have a swipe at two more minor misconceptions which, like battered old tennis balls, still seem to bounce balefully about the corridors of Tilbury House. The first is the division of people and tastes into manufacturers and consumers, whereas, in fact, surely the manufacturer is also a consumer and usually has similar tastes. The second-a particularly hardy specimen this one-is the belief that if something is difficult to dust it's badly designed. Practically everything in my sitting-room-books, pictures, china, furniture, the piano-is difficult to dust, but if, as I do, you like your possessions and think them pretty and useful, you don't grudge dusting them (or, if you do, your solution is to press for the reduction of the dust in the air, not to get rid of everything upon which it may rest).

#### GORDON BROWN-DARWIN THEORY

Next term approximately forty students—painters, sculptors, designers —from the RCA will be co-operating with students from the fourth year at

the AA theatre. work w ing gr change carry o studios and ex The i one-is examin of coll culties must. tion b adverti having part o (with

entang

mutua

aging

promis

in the

The mo

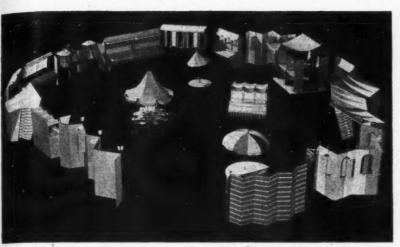
" Desig

" Desig

Cardiff,

architect

FRENCI In yet lately I ing on wholly plimen week a He cle ing ev Howan medal his ne



The model of " Design Fair " the small travelling exhibition, one of the main features of "Design Week-Wales" which has been organised by the Council of Industrial Design. "Design Fair" is on view to the public for the first time at the National Museum of Wales, Cardiff, until April 17. The exhibition was designed by James Gardner, the associate architects were Messrs. Dalgleish and Pullen, FF.R.I.B.A. See Astragal's note.

the AA on the detailed designing of a theatre, for which the main planning work was undertaken last term. Working groups from both schools will change places for short periods and carry out their studies in each other's studios. Teaching staff will co-operate and exchange duties during the term.

ers '

rtain

enth

ated

are

erely

n he

con-

el of

Over

good

take

esign

type

n be

TROI

ies "

savs

akes

use.

nkly

, a

t are

is a

rush.

gree

ciate.

the

e the

two

hich.

seem

idors

the

anu-

s, in

also

nilar

larly

belief

t it's

hing

ures.

ficult

your

and

them

oress

e air,

hich

forty

ners

ating

ir at

t.

The idea-which seems an excellent one-is an experiment organized to examine the possibilities of this form of collaboration and to see what difficulties will arise, as they no doubt must. The tradition is that collaboration between departments, which is advertised as the main advantage of having your school of architecture part of a university, merely consists (with art departments) of amorous entanglements and (with engineers) of mutual studio-wreckings. It is encouraging to hear of a scheme which promises as well in practice as it does in theory.

#### FRENCH SPOKEN

In yet another way, too, the AA has lately broken new ground: by conducting one of its evening meetings almost wholly in French. This was the compliment paid to Auguste Perret last week at the dinner given in his honour. He clearly appreciated it and was enjoying every moment as he sat beside Howard Robertson fingering the gold medal that the PRIBA had hung round his neck the night before.

Perret's own speech was full of his usual charm and of profound but quite untranslatable architectural aphorisms. The others said their pieces manfully and by no means haltingly until Col. Cart de la Fontaine brought a brave effort to an end by breaking into English. Sir Owen Williams persuaded the company to accept another English speech by threatening to speak in Welsh. His speech was one of the two best, the other being that of Arthur Davis, as fluent a French speaker as an old pupil of the Beaux Arts ought to be.

UNIT DESIGN AND QUALITY

The material presented by J. L. Martin (see last week's AJ) as an example of the ways in which the innumerable problems of the railway architect might be tackled must have impressed all readers of the JOURNAL. Most architects know only too well how easily a large programme can result in stock and shop solutions of mean character.

The ex-LMS, like London Transport before it, seems to have found a satisfactory answer to at least one problem; while using unit design and unit components, Mr. Hamlyn and his team have produced results which are both technically efficient and architecturally on the right lines. Their achievements can help to lay a solid foundation for future developments.

BRITAIN AIDS U.S. ARCHITECTS

While the first fruits of ERP sail for Europe, I see from the US Architectural Forum that The Architectural Review is helping to return the compliment by stimulating a new deal for American architecture. The Museum of Modern Art, it seems, invited several hundred architects to discuss "What's Happening to Modern Architecture?" a burning question to which fuel had apparently been added by the Review, described by The Forum as "the scholarly and sophisticated mentor of the British architectural profession, whose owner plots new directions from a Sussex farm."

" While the Museum meeting did not provoke any ringing new credo of American architectural theory," reports The Forum, "it was useful as a platform for reflecting the trend of European architectural thinking." Congratulations to Sussex farm-owner and editors (" serious social realist J. M. Richards, famed historian Nicholas Pevsner and cartoonist Osbert Lancaster") upon their enthronement as high-priests of European architectural thought and to the Review for launching its own little AR Programme.

ASTRAGAL

# LETTERS

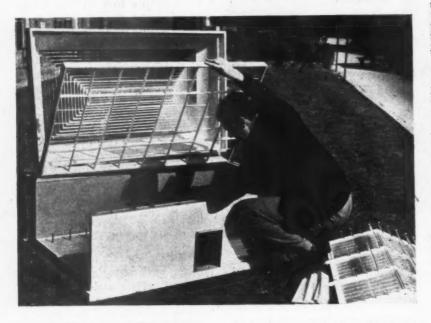
John Swarbrick, F.R.I.B.A., M.Inst.Struct.E.

#### National Amenities Council

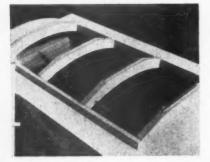
SIR.—I regret to call your attention to a factual inaccuracy in the letter of Sir Lancelot Keay, regarding the National Amenities Council, in your issue for April 1. Sir Lancelot stated that, when the Royal Institute of British Architects was ap-proached regarding the formation of the new Council, there was no evidence that any support was likely to be forthcoming from other bodies. The President must have forgotten that his friend, the late Sir Charles Reilly, commenced by informing him circum-stantially that the British Medical Associa-tion had expressed willingness to appoint representatives to serve on the National Amenities Council, provided that the RIBA would also appoint representatives. With all the extraordinary powers of per-suasion he possessed, Sir Charles then most earnestly advocated the formation of the new body to a cautious, but not unsympa-thetic. Council that heitstat to represent

new body to a cautious, but not unsympa-thetic, Council, that hesitated to make an immediate decision and referred the matter

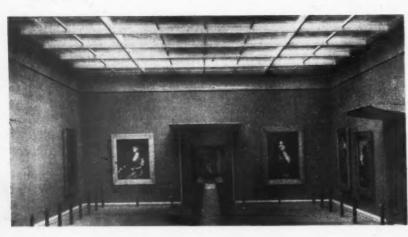
#### LIGHTING THE NATIONAL GALLERY







At the request of the Ministry of Works, the Building Research Station has made a study of the problems of lighting the war-damaged rooms of the National Gallery when they are reconstructed. There are two main difficulties. A roof-light usually has to be used ; it is always so bright that the eyes adjust themselves to it rather than to the light lower down in the room. The other problem is that the light on the higher parts of the walls is stronger than the lower parts there the pictures hang and the eyes tend to be attracted to the brightest things in view. These problems have been overcome by introducing a lowere system arranged so that the strongest light faces on the paintings, and the view of the sky from the floor is eliminated. A shallow cornice also avoids aggravating shadows. A laylight below the loweres reduces the amount of air that has to be conditioned, and hoods over the door prevent a sudden view of the sky direct in the eyes. Another feature is a glass lowere system outside which minimises the heat of the sum without reducing the light too much. The photographs show the BRS model of the proposed alterations. Mr. J. B. Bickerdike, A.R.I.B.A., was mainly responsible for the actual design.



to the Council Executive for consideration: The Executive eventually advised the Council to take no action in the matter. It then transpired that the Executive had confidentially consulted the CPRE and the London Society, before making any recommendation. For some of the delay in formation, to which the President refers, the Council of the Roya Institute was itself directly responsible, but the main causes were the limitations impose on Sir Charles by growing physical indiposition beyond his control. Fortunately many other well-known bodies have been interested from the first, and there will certainly be no lack of support from other quarters.

Sir Charles accepted the decision of the RIBA Council as regrettable, but with unshaken confidence in the objects of the new body. Knowing that he had Ministerial support, in addition to that of many of the most widely recognized and most outstanding authorities in the country he was amply satisfied. He never forgot that among he main objects of the National Amenities Council were the provision of essential physical amenities and the creation of an enlightened public opinion. Why the Council did not support him, in view of the circumstances, neither he nor many RIBA members could understand. At one time, the Royal Institute tried with all the means at its disposal to bring about the advancement of knowledge, and did not seek to deter eminent authorities from doing what they could to improve the loc of their Fellows. Let us hope that some day they will do so again.

I am inclined to think that the letters of Sir Patrick Abercrombie and Miss E. Bright Ashford may give to the casual reader entirely actually erroneous impression of actually happened. The readers may imagine that, when the CPRE and the London Society gave consideration to the proposed formation of the National Amenities Council, they did so in response to invitation from the Amenities Council. Th was not by any means the case. As I have stated, the CPRE and the London Societ were only consulted confidentially by RIBA Council Executive and not by the Council. What representations were made to the Executive, the RIBA Council was not 1 think, informed. The letter of Sir Patrice and that of Miss E. Bright Ashford, or behalf of the London Society and the Central Council of Civic Societies, are, and for not concerned the first definition far as I can recollect, the first definite intim tions of the views of the respective bod to which I have had access. The write have already been informed by me that, any detailed particulars regarding the exte and nature of the activities of the bodies which they are interested are forwarded me, they will be most carefully consider by my Committee. I recollect that, in t earliest stages of our work, Sir Charles Reil to'd me that he had received a letter, write on behalf of the CPRE by Major Cloud Williams-Ellis, who knew him intimately Afterwards Sir Charles added that he did m regard the work of the National Ameniti Council as redundant, as our approach in t matter of physical amenities would be qui distinct. Moreover, he did not think the there need be overlapping in any respective of the two bodies should contract, he did not understand why could not work together as friends, supp

ing one another without any rivalry. I should point out that it seems most understanding can be reached without direct personal contact. Correspondence in the technical press and the intervention of thind parties does not create a favourable impression.

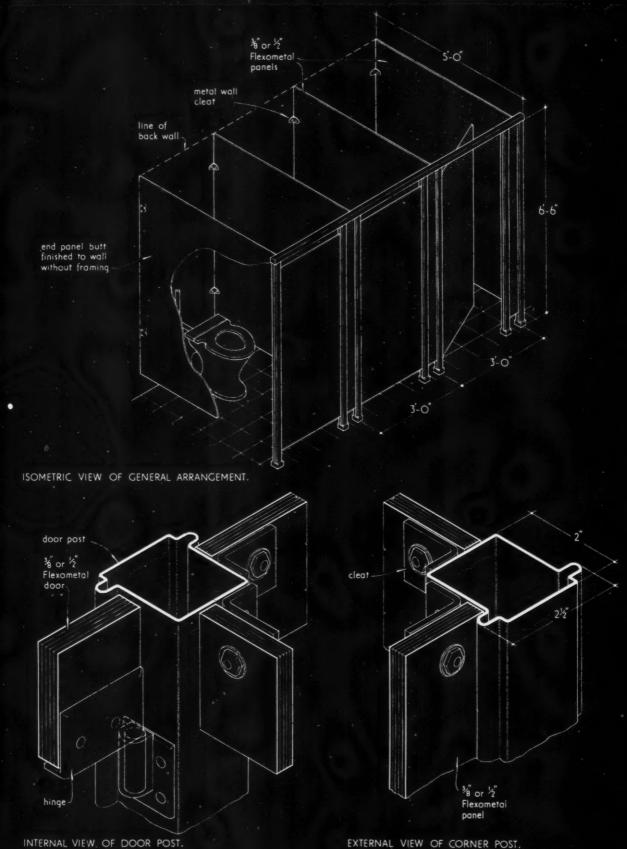
JOHN SWARDRICE Hon. Sec. (pro tem.), National Amenities Count 3, North King's Bench Walk, Temple, E.C.4.





#### SPECIALISED FITTINGS LAVATORY CUBICLES

The Architects' Journal Library of Information Sheets 57. Editor: Cotterell Butler, A.R.J.B.A.



INTERNAL VIEW OF DOOR POST.

·FLEXOMETAL CUBICLE .: LAVATORY CUBICLE.

N 43.ZI

#### 43.Z1 'FLEXOMETAL CUBICLE': LAVATORY CUBICLE

This Sheet describes the Flexometal Cubicle. The cubicle is constructed of Flexometal (metal-faced plywood) panels with extruded aluminium hollow section door posts and headrails.

The panels forming the sides of the cubicle and the panels forming the doors are  $\frac{1}{6}$  in. or  $\frac{1}{2}$  in. thick. All edges are sealed with metal to render the panels waterproof. Any number of units can be fixed to form a range of cubicles and sizes can be varied to suit requirements.

#### Construction

*Door posts*: These may be fitted with aluminium foot supports with lugs for grouting into floor or alternatively with adaptor plates for screwing to floor. Hinge brackets are of gunmetal and are riveted to the posts by the Rivnut system of blind riveting. Cleats to carry the side panels are fixed in the same manner.

*Head rail*: This is a continuous horizontal member and is bolted to the door posts; it may also be grouted into an end wall to provide additional support.

Panels: Flexometal used in the construction of the panels consists of two thin sheets of metal cemented

under high pressure to a plywood core. They are  $\frac{1}{2}$  in. or  $\frac{1}{2}$  in. thick and are fixed to posts and back wall with metal cleats.

**Door**: The door is made from a single sheet of Flexometal  $\frac{3}{6}$  in. or  $\frac{1}{2}$  in. thick. Hinge pins are of gun metal and are fixed with small bolts with cap nuts. A chromium plated barrel or indicator bolt is fitted at the latch side. Automatic coin-locks can be provided if required.

#### Finish

The metal facings to doors and panels can be either of aluminium or galvanised steel. The whole may be painted to suit surrounding decoration.

Compiled from information supplied by :

Flexo Plywood Industries Ltd.

Address : South Chingford, London, E.4. Telephone : Silverthorn 2666 (7 lines).

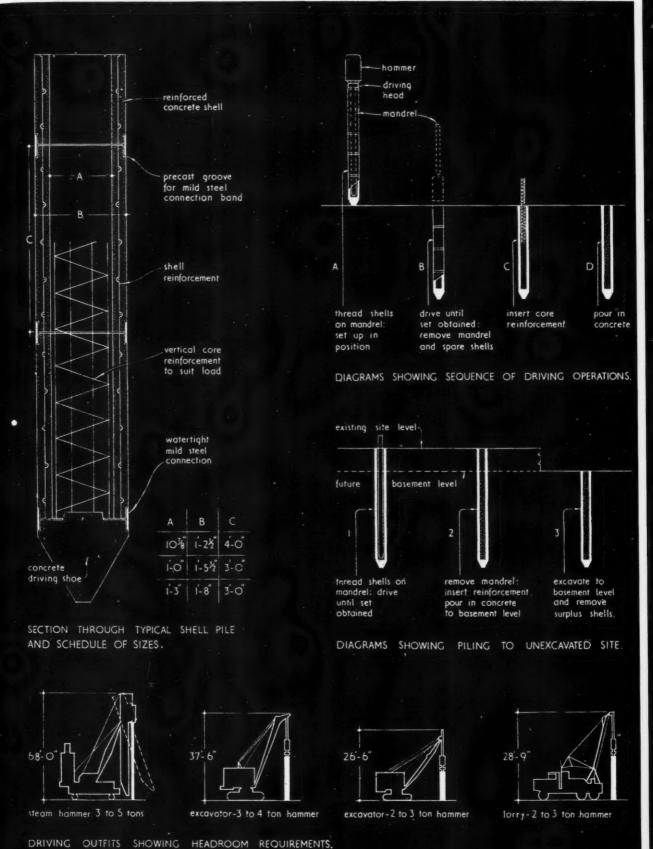
Copyright Reserved. The Architects' Journal Library of Information Sheets. Editor: Cotterell Butler, A.R.I.B.A.





#### PRODUCTS FOUNDATIONS AND PILING

The Architects' Journal Library of Information Sheets 58. Editor : Cotterell Butler, A.R.I.B.A.



WESTS CONCRETE TURINAR CHELL PULING Manufe

#### 26.E1 ·WEST'S· CONCRETE TUBULAR SHELL PILING Patent Nos. 335620 and 576236)

This Sheet describes West's precast reinforced concrete shell piles. The pile is formed by driving into the ground precast reinforced concrete tubular sections 3 ft. or 4 ft. long preceded by a concrete shoe. Each pile is driven until a desired resistance is obtained. The joints between the shells are kept watertight by means of steel bands treated with a bituminous mastic material.

Advantages of the system are that the bearing capacity of each pile may be calculated owing to the fact that the pile is driven to a predetermined dynamic set by means of a hammer. A minimum of waste is involved as only the last shell to be driven may have to be cut to take the bearing cap. The skin friction arising as a result of the driving of the pile is retained since the technique avoids the initial set being disturbed. The precast reinforced concrete shells ensure constant cross section and protect the core concrete from impurities in the ground.

#### Sizes

The following table gives the sizes of standard piles available. Piles may vary in length from 15 ft. to 100 ft.

External diameter	Shell reinforce- ment	Core dia.	Main bars	Spiral binding	Shell lengths	Max. load subject to length
l ft. 2½ in.	A in. dia. 6 verticals 12 rings	107 in. -	4 or 6 } in. dia.	‡ in. dia. 6 in. pitch	4 ft.	40 tons
1 ft. 5½ in.	h in. dia. 6 verticals 7 rings	1 ft.	6 1-1 in. dia.	1 in. dia. 6 in. pitch	3 ft.	60 tons
l ft. 8 in.	A in. dia. 8 verticals 7 rings	1 ft. 3 in.	6 2-3 in. dia.	<pre>å in. dia. 6 in. pitch</pre>	3 ft.	90 tons

#### Construction

Shells : The shells are of precast reinforced concrete recessed at each end to take the mild steel jointing bands.

Reinforcement: Core reinforcement to suit the load which the pile will have to carry is passed through the shells to rest on the concrete shoe.

Filling : The pile is completed by filling the shells and surrounding the reinforcement with concrete. The concrete core and reinforcement is not fatigued as it is placed after the "set" is obtained.

#### Driving

The hammer blow is delivered direct on to the shoe by means of a mandrel which passes through the shells, the shoe taking the driving stresses and penetrating the load-bearing stratum. At the same time a cushioned blow is applied to the shells, through a special patented arrangement on the mandrel driving head, to overcome skin friction and keep the rate of travel of shells and shoe constant.

The ratio between the cushioned blow on the shells and the direct blow on the shoe can be varied.

After the "set" has been obtained the mandrel is withdrawn and any spare shells above ground removed.

#### Methods of Driving

The method of driving selected depends on the site conditions and the nature of the work. The lower diagrams show various methods and machines which may be used.

Large Contracts : Pile frame-Steam hammer. A 3to 5-ton type for vertical or raking drive (up to 1 in 3 rake) drives 8 to 12 piles per day.

Medium Contracts : Excavator outfit-3- to 4-ton drop hammer. Immediate start on any site. Drives 6 to 10 piles per day.

Excavator outfit-2- to 3-ton drop hammer. Immediate start on any site. Drives 4 to 8 piles per day.

Small Contracts : Lorry outfit with collapsible leaders and 2- to 3-ton drop hammer for level sites. Immediate start on suitable site. Drives 4 to 8 piles per day.

Compiled from information supplied by :

West's Piling and Construction Co. Ltd. Head Office : Bath Road, Harmondsworth, Middlesex. Telephone : West Drayton 2288-9.

London Office : Columbia House, Aldwych, W.C.2. Telephone : Holborn 4108.

Glasgow Office : 2, Weirwood Park, Baillieston, Nr. Glasgow. Telephone : Baillieston 52.

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

1

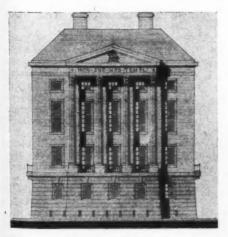
0 n



Above, the ruins of Crown Office Row, photographed immediately after the air-raid in which it was hit. It is to be rebuilt, but to a different lay-out. See the plans for rebuilding the Temple on the next page.

# RECONSTRUCTION OF THE TEMPLE

J. HUBERT WORTHINGTON : ARCHITECT TO THE INNER TEMPLE. CLYDE YOUNG : ARCHITECT TO THE MIDDLE TEMPLE (EDWARD MAUFE, CONSULTANT)

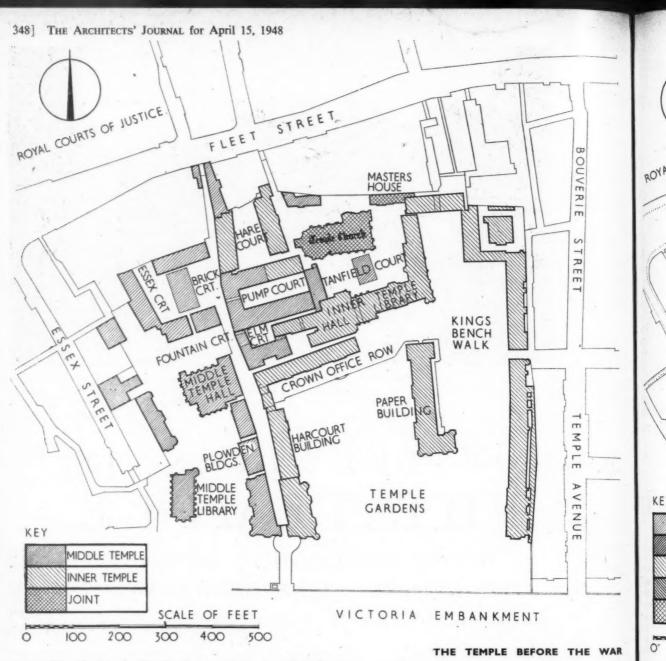


Mr. Edward Maufe's design for a new Middle Temple Library, to be built on the site of the one destroyed. It is of Portland stone. The main library is on the second floor.

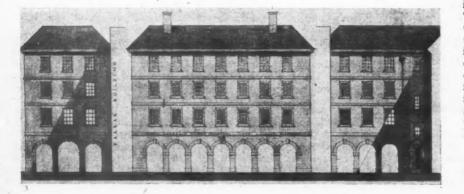
The policy for rebuilding the devastated Temple is to restore it as nearly as possible to its original condition. The scale of the old sequence of courts and terraces is being maintained, together with the traditional height-limit of four storeys. The rebuilt chambers will follow the eighteenth-century vernacular character exemplified in Pump Court and elsewhere, though considerable internal replanning is being done and improved sanitation introduced.

The old lay-out is being varied in certain places (see comparative plans overleaf) to improve lighting and access. Lamb Buildings, which belonged to the Middle Temple and occupied the centre of Tanfield Court between the Inner Temple Hall and the Temple Church, are not to be rebuilt. In their place the Inner Temple are ceding to the Middle Temple a portion of the north end of Harcourt Building which will be renamed New Lamb Court. Alongside this, the old Crown Office Row is replanned so as to leave the front of Inner Temple Hall open to Temple Gardens. An archway underneath the building gives access from Middle Temple Lane to the Terrace and the Inner Temple generally.

Further north Pump Court, with its Cloister leading to Tanfield Court is to be rebuilt on the old pattern (see Mr. Maufe's drawing overleaf) and Elm Court is to be rebuilt and enlarged; this will involve the disappearance of the old Fig Tree Court. The destroyed half of Mitre Court Buildings is also to be restored. The remainder of the reconstruction work in the various blocks of chambers con-



Below, Mr. Maufe's drawing for the new Cloister to replace the one destroyed at the eastern end of Pump Court. The original eight arches have been replaced by seven, in order to achieve a central void. The discovery has since been made that seven arches were intended by Sir Christopher Wren, whose sketch for the Cloister survives in the possession of the Middle Temple. Mr. Maufe's use of a cornice to replace the old parapet also has the sanction of Wren's own drawing.



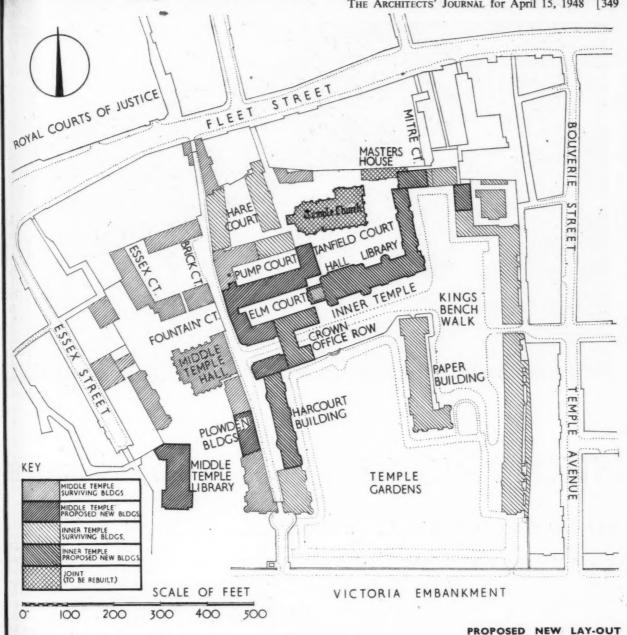
sists of rebuilding the damaged houses in surviving courts and terraces. A considerable quantity of this work has already been completed in Brick Court and Essex Court in the Middle Temple and

in King's Bench Walk in the Inner Temple. Of the Halls and Libraries of the two Inns, Middle Temple Hall is the only one not too heavily damaged to be repaired. It was completed in 1572 and is famous for its hammer-beam roof. A building licence has recently been granted, enabling restoration work to begin. The Middle Temple Library (for which Mr. Maufe is

RECONSTRUCT-

10





VAR aged

and atity comlasex and nner f the Hall

avily was s for uildbeen work mple fe is

T-

ION

OF

THE

TEMPLE

architect) is to be rebuilt to a new design on the old site (see page 347) and the Inner Temple Hall and Library, the latter with its return wing facing King's Bench Walk, to a new design by Mr. Worthington. The Hall will use the same foundations as the one destroyed, and the new library building will maintain the old arrangement of its parts with Treasurers' offices on the ground floor, the Parliament Chamber on the first floor, the Library on the second floor and the stack room in the roof, the latter extending over the roof of the Hall as well. The Hall itself is to be in stone

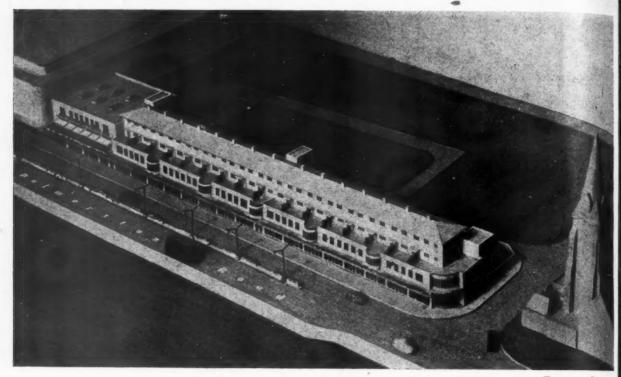
and the remaining buildings in blick. A triple archway under the north wing of the Library will link Tanfield Court with King's Bench Walk, replacing the old glazed-brick tunnel.

In the Temple Church (which belongs to the two Inns jointly) considerable repair work has been done to preserve the structure. It is intended eventually to restore it completely. This work has been put in the hands of Mr. Walter Godfrey.

> Right, Pump Court after bombing, looking from the Cloister. It has now been completely demolished, but is to be rebuilt approximately as before.



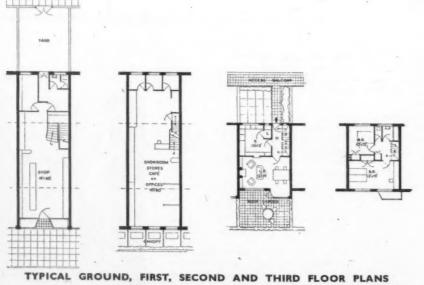
350] THE ARCHITECTS' JOURNAL for April 15, 1948



From north-east.

# SHOPPING CENTRE IN PORTSMOUTH

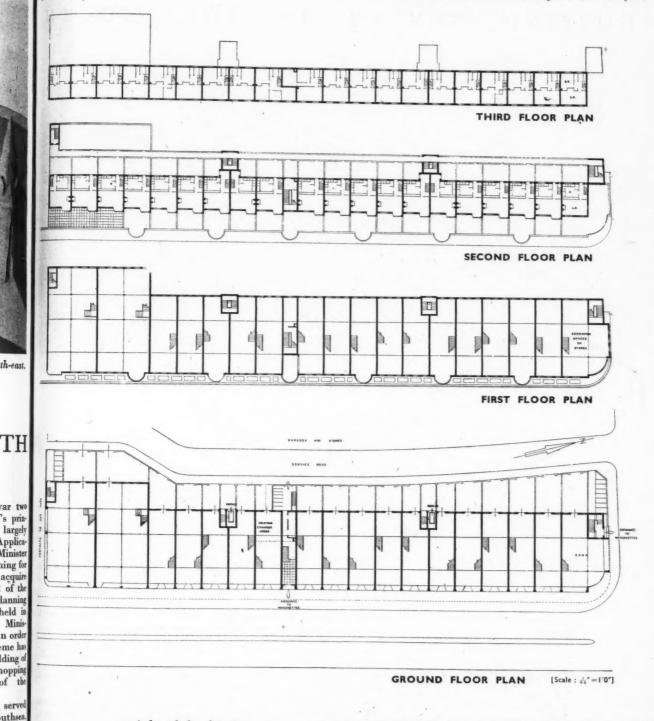
DESIGNED BY T. L. MARSHALL, CITY PLANNING ARCHITECT



[Scale : #"=1'0"]

GENERAL. During the war two of the City of Portsmouth's principal shopping centres were largely destroyed by bombing. Application has been made to the Minister of Town and Country Planning for permission to compulsorily acquire the sites under Section 2/2 of the 1944 Town and Country Planning Act. The Inquiry was held in September, 1947, and the Minister's decision is awaited. In order to minimise delay, this scheme has been prepared for the rebuilding of a section of the Southsea shopping centre in anticipation of the authorities' verdict.

The Palmerston Road area served the seaside resort of Southsea. It was a good class shopping centre, included two departmental stores, and did a large business with holidaymakers. The site is cleared and available for immediate development. Meetings were held with the traders who had previously had buildings on the site and it wa agreed that the most satisfactory solution of the problem would be for the City Council to erect a range of shops on the west side of the street to be let on lease. The



remainder of the shopping centre is to be erected by private enterprise but the design is to be to the approval of the City Council. The principal points that have governed the preparation of the

centre

stores

s with

cleared

e deve

ld with

sly had

it was

factory

ould be

erect I

side 0

.

The

design are :---(1) The scheme to be economical to construct, and capable of being carried out by stages if necessary. (2) The plan to be sufficiently flexible to meet the varying requirements of the traders without undue cost.

(3) The shopping frontage to have

a minimum amount of interruption because of the high rental value.

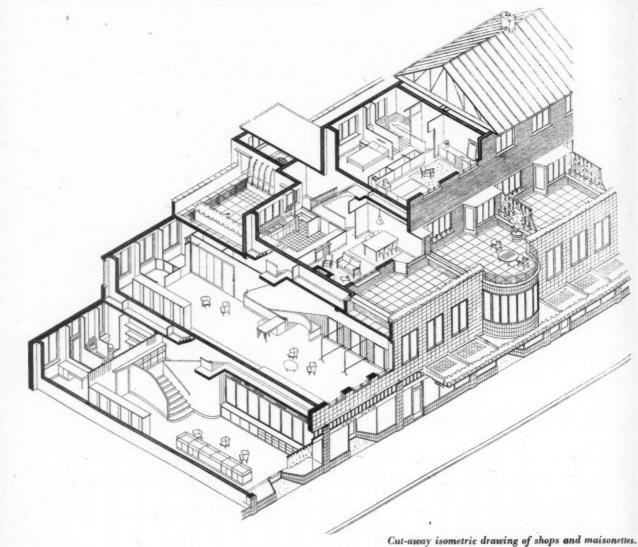
(4) Living accommodation is required by a number of businesses for resident managers, etc., and this must be so arranged that it could either be connected direct to the shop or be quite separate. Each dwelling must have a separate entrance and in view of the class of district and the rental value, it was necessary that they should have a Palmerston Road address.

(5) The general character should

be one appropriate for a seaside resort and have a measure of gaiety and colour.

PLAN. Analysis of the traders' requirements resulted in the design of a standard unit consisting of a shop 60 ft. by 20 ft. with a yard at the rear 20 ft. by 20 ft. and a service road for goods delivery. At a later date there will be lock-up garages and a car park approached from the service road. Above the shop fronts is a continuous reinforced concrete glazed canopy to SHOPPING

### CENTRE IN PORTSMOUTH



give shoppers protection from the break weather.

Above each shop is a room 60 ft. by 20 ft. with a large projecting semicircular bay window to every third shop. These will be allocated to cafes, showrooms or a trade where the first floor is used by the general public. In other cases the first floor will be used for stores and offices. Lavatory accommodation, etc., will be to tenants' requirements.

On the second and third floors are 2- or 3-bedroom maisonnettes, one over each shop, which can be connected by staircases to the shops if required. The principal entrance to the maisonnettes is from Palmerston Road and this is the only break in the shopping frontage. There is a subsidiary entrance in Kent Road and service and escape stairs off the service road at the rear.

The maisonnettes are placed almost centrally over the shops as seen in the drawing above. This gives a roof garden to Palmerston Road 15 ft. by 10 ft., and this set back, together with the projecting shop canopy, will give quiet living conditions. At the rear is an access balcony separated from the maisonnette entrances by a paved space. Living conditions are as nearly as possible equivalent to that of a house.

CONSTRUCTION. Reinforced concrete frame, floors and canopy.

BY T. L. MARSHALL, CITY PLANNING ARCHITECT

Roofs, light steel trusses with copper sheeting.

ELEVATIONAL TREATMENT-Below second floor level, walls to have faience tiles, and above, brick. First floor windows to have artificial stone. surrounds. Continuous flower box on edge of canopy and first floor parapet, to be maintained by Parks Dept.

SERVICES. Chutes at second floor level discharge refuse into containers at ground floor level. Provision has been made for a passenger and a goods lift to be erected in the future if this is found to be an economic proposition. Apart from one open fire to each maisonnette, both shops and maisonnettes will be heated from a central plant. - - B - B -

Spec befo of t und proj tion To by Lecc in j in t

Squ ARC Mr.

I m arch by i

nels ofte som part St thes imp "pu I co the very ning Ho is o WOL past Chu biti enli the trai of rega the exp wha for not bec had cen pat diff situ ticu

For

not

ma dev tim wh cor



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.

#### AA

ettes.

with

NTvalls

ove,

to 5

nds.

e of

apet,

cond

con-

Prosen-

d in

e an

from

ette,

will

CT

t

pt.

H

#### Anthony Cox

March 24. At the AA, 34/6, Bedford Square, W.C.1. PUBLIC AND PRIVATE ARCHITECTURE. The Vice-President, Mr. R. E. Enthoven, was in the chair.

To begin with a definition of what Anthony Cox: I mean by public architecture. I mean architecture that is commissioned and owned architecture that is commissioned and owned by the public through the democratic chan-nels of central and local government. It is often called "official" architecture, and sometimes, if you're out to infer that it is particularly undesirable, you can call it "State" architecture, but I dislike both these labels: they strike a note that is the these labels; they strike a note that is too impersonal and too distant. Even the word "public" smells of municipal tarmac. I could have called it, with some precision, the people's architecture, but one has to be very careful these days; even that is beginning to smell slightly.

However, whatever we call it, my criterion is ownership, or, to use an old-fashioned word, patronage. Now, patronage in the past has depended largely on the Crown, the Church, the wealthy individual or the am-bitiour correlation of the fortune fortune table. bitious speculator-often, fortunately, an enlightened one. Even at the beginning of the thirties, when I began my architectural training, these—with the possible exception of the Crown and the Church—were regarded by us, in an imprecise way, as the principal sources from which we might expect work, and upon which we built some-what vague pictures of drawing nourishment for our future private practices. We were not, I think, aware, although we were to become so very soon, of the way the wind had been blowing since the nineteenth century. For a change in the sources of patronage was to present us with a very different picture after the war. Our present situation has brought this picture into particularly clear, if somewhat false, relief. For although to-day's picture may be over-sharp, I think it is important that we do not underestimate its significance; for the change that it emphasises is one that is intimately linked with a process of social development which has taken—and con-tinues to take—out of private hands services which are essential to the well-being of the community as a whole, and, as the process

continues, the well-being of the community continues, the well-being of the community as a whole comes to be more and more liberally interpreted. In the past such ser-vices, if they were provided at all, were principally the products of private enter-prise or an enlightened philanthropy; to-day their control is vested in some form of public organization. organization.

THE NEW PATRONAGE

This is one side of the picture. The other side is, of course, that wealthy individual patrons are a diminishing race-not yet per-

patrons are a diminishing race—not yet per-haps quite extinct, but rare enough to be something of an oddity. Industry and commerce are perhaps the only remaining really powerful private patrons. The social change and redistribution of wealth that this implies pervades the whole of our machinery of living together, our whole social fabric. And I suggest that it isn't at all a temporary phenomenon, but a whole social fabric. And I suggest that it isn't at all a temporary phenomenon, but a stage in a process that will continue and will cover an increasingly wide field of our necessary building work.

Now, public patronage offers us tasks just as exciting, just as apt to catch the imagina-tion, as those offered by our wealthy patrons in the past. What, after all, could be more stimulating than a new town? And it offers tasks, too, with a social background and purpose that most of us. I think, find specially sympathetic, tasks which hold promise of architecture becoming once again a popular art, used and understood and appreciated by a wide, and not an exclusive, public.

Our difficulties begin, however, when we come to consider who shall be given this work. We may all agree that public patron-age offers wide opportunities for good build-ing, but opinions differ—and differ forcibly —on who should get the opportunities. The natural result of the growing public respon-sibility for architecture has been that central and local government have appointed their and local government have appointed mer own architects—permanent architectural advisers; and we would all agree, I think that this in itself is very desirable. What many of us find undesirable is that these public architects should themselves carry out the whole of their authority's building work. In fact a large number of neople work. In fact, a large number of people wou'd agree with W. H. Auden that "Private faces in public places

# Are wiser and nicer Than public faces in private places."

THE BUREAUCRATIC TRADITION I don't think I am overstating the case if I say that there is a pretty general feeling that there is something about a public department that denies freedom of thought and imagination; something that saps the will to experiment and to find new solutions; and, above all, some sort of atmospheric pollution in which the creative talent cannot function. And, on the other hand, there is the feeling that in private practice we can find the opposite of these undesirable things: the keen edge of competition, maybe, that is conducive to progress; the spur per-haps to personal expression, or personal fame; and above all an air of freedom in which the spirit can expand, and in which

works of quality can be produced. Now while I would not deny that, to an extent, these feelings are based on observation. I think there is also a large element tion I think there is also a large element of habit in them. We have become so accustomed to the idea of the successful architect as a private practitioner. And it is natural enough, after all, that in the past —at least, since the Renaissance—he should have been a private practitioner, for that was the niche he could best fill in society, that gave him the best oppor-tunities—in fact, with a few exceptions, almost the only opportunities. And in the very recent past, too, it is the private men who have been the pioneers, and who have who have been the pioneers, and who have made the major contributions to the archi-tecture of our time. It is natural, therefore, that many of us should instinctively regard private practice as the ideal and feel that it alone can enable us to develop a lively and a significant architecture.

It is also unfortunately true that we can find many examples of dull and uninspired work from public departments; and that if we compare these with the work of our more experimental private architects we may be tempted to think that there is some-thing inevitably inhibiting about the public may be tempted to think that there is some-thing inevitably inhibiting about the public office. But this is not a fair comparison. If we take a rather wider selection of pri-vate architects, I think that we may find evidence of an equally distressing volume of architectural inhibitions of architectural inhibitions.

THE NEW ARCHITECTURAL SPIRIT In assessing the balance we must take into account, on the side of the public depart-ments, that it is only fairly recently that some public departments have attracted the more likely types of younger men; and also that it is only recently that the public archi-tect's department as such has emerged as a tect's department, as such, has emerged as a separate technical entity; and it takes a little time for it to shake off the inappropriate precedents and personnel that belong to the reign of the public engineer-for whose undisputed sovereignty in the 19th whose undisputed sovereignty in the 19th century the architectural profession itself was as much to blame as anybody, and whose steady practical domination of the field of public building has only recently been seriously challenged. While only a few public departments had, before the war, shown much evidence of viscour and practice shown much evidence of vigour and progrés-sive thought, we are now, I think, in these lean post-war years, beginning to see indi-cations on a wider scale of a new archi-tectural spirit, and I suspect that in the next few years, as work now in hand is completed, a much greater volume of evi-dence will have accumulated, and that if we have prejudices towards inevitable mediocrity of departments, we shall find ourselves rapidly readjusting them. I suggest that as these prejudices—and they undoubtedly exist -become readjusted, so it will be that much easier for this progressive tendency to develop and for our public departments to attract the right sort of men.

Now you may say that these indications are not straws in the wind at all, and that far from proving anything (which I know they don't) they don't necessarily indicate a pro-gressive movement. The real fatalist may ay that given a few more years even those departments which now show promise will have sunk into the grooves of routine, smothered by the dead hand of officialdom. Of course, if enough of us take this negative attitude I am sure that they will; but it seems to me that officialdom is very much what we make it, and that most of the so-called inherent objections to public departments are not really so deep-rooted as we imagine. I want, therefore, to examine one or two of these objections and to suggest some positive answers to them.

#### THE ADMINISTRATIVE BURDEN .

The first objection, and one that is com-monly heard, is that the public architect —and here I mean the head of a department-must necessarily be so much obsessed with matters of routine administration, with advances and retreats within the official structure, that he cannot possibly give any close attention to questions of architectural design. Now, perhaps this is true in a department with really wide responsibilities, but is it, after all, a very serious objection? It assumes, surely, a particular role for the head of the department, that the man at the top should design, and that the staff should be left to work out the details. work that way nowadays? Can we

suggest that very few of us can. The really strong architectural personality can do it because his assistants will recognize his dominating creative power, but such men are the rare exceptions of a generation. There just aren't enough to go round, and what few there are can't possibly do all the work that there is to do. But the alternative to this way of working is not. I think, that the head of a department should be a mere administrator; surely a better way of charac-terizing him is as what I have heard called an "umbrella man," under whose shelter teams of designers have wide responsibilities and powers of decision; a man of diplomatic ability and vision, capable of transmitting to his department the—as it were—strategic significance of the work in hand, and of generating in his staff an atmosphere of corporate enthusiasm in which that work can be well carried out for its own sake. I can see no reason why we should assume that the work should bear the imprint of his own hand; on the contrary, if imprint there should be, let it rather be significant of his ability, as an "umbrella man," to attract and to shelter assistants of vigour and of vision.

#### INERTIA

Size is another common objection to the public department. It is suggested that its responsibilities are sometimes so wide and its staff so huge that it must lose all sense of identity. To me, this seems to depend largely on how the department is organized, and the criticism loses most of its point if we imagine the large department made up of a number of parallel and semi-autonomous teams, not necessarily of architects only, each team organized on a job or a programme of jobs, and having direct contact with representatives of its client department and, even better, with local groups that represent the actual clients, or users.

All these teams can share certain common information services and certain machinery of mutual liaison, but this should not, I feel, be merely a paper affair. I should like to see a more corporate spirit encouraged amongst these semi-autonomous teams by some common meeting-ground for display and discussion of work in hand, where knowledge and criticism can be pooled and each can re-act upon its fellows as a kind of catalyst or compelling irritant. Even so, it may be that the department may be physically so large that it becomes not a symposium but a sort of mass rally. Here I would suggest that there is a strong case for actual geographical separation, for a breakdown into regionalism within its own region.

Another objection is lack of competition. It is argued that the private architect must get new commissions in order to survive, and has therefore a very real interest in produc-ing good work, whereas the lack of competition for work in a public department its very safety-tends to result in mediocrity. But is this element of competition really a very important factor in the production of good architecture? I don't think it is. In fact, I doubt whether it is of any importance Good architecture is produced, all think, for its own sake, and if we don't find that a completely absorbing occupation, I don't think that the stimulus of competition is going to help us. Now, I cannot for the life of me see why a desire for good architecture should be the special attribute of the private office, unless it is that the staff of the public department are normally allowed too little freedom, inadequate contact with the client departments for whom they are working, and only an imprecise idea of the general strategy of the department's pro-gramme as a whole—if the staff are in fact not treated with the respect that an architectural staff deserve.

All this implies not merely a delegation of responsibility, but also a very great degree of freedom in the department. The active encouragement of such freedom, the positive acceptance of fresh ideas, and a refusal to get bogged down in precedent, in what we did last year, seem to me to be of primary and absolute importance. Once they are denied, inertia begins to set in. I suggest that two very effective ways of safeguarding this freedom are by recognizing constantly the right of full critical discussion within the department, and by keeping close contact at all times, and at all levels, between the department and its public.

I think this public contact is particularly important, not only because it can transmit to a department an important external stimulus of criticism and appreciation. It is

something that affects us all very deeply as architects, whether we are in public or pri-vate employment. I don't only mean that the development of this contact can encourage the public to regard architects as necessary and useful, and not merely as luxuries -although this in itself is of course very important, I mean more than this; namely, that our architecture itself will benefit from a closer sympathy between designer and patron-a sympathy based, from our side, not only on the understanding of documentary reports and recommendations, use-ful as they are, but on a closer human understanding. This is more than ever important when the client is our somewhat precise, elusive Man in the Street. Now, public architectural departments are, I think, in an enviable position here, particularly when their responsibilities are local or regional. They can, if they will take the opportunity, not only have close working contact with their client departments and with the elected representatives of the pub-Jic, but can cast their net very much wider, and in doing so can stimulate a local architectural interest and pride and create in the public the confidence that it possesses its own architectural offices—not remote and bureaucratic, but recognizable as an im-portant and tangible part of local affairs. To my mind, they have a great respon-sibility here, and one that has tremendous possibilities—presibilities that they alone possibilities—possibilities that they are really in a position to develop. alone The sense of purpose that this close contact can stimulate is really, I think, the main-spring, the generator, that can maintain an atmosphere of enthusiasm in the department-enthusiasm without which, in the long run, it will not continue to produce really vital work.

#### TEAM WORK AN ADVANTAGE

It still remains to ask whether there are any real arguments for public departments as such, or whether the work they do could not be done just as well, anyway, by private practitioners. I have already suggested that the public department has a positive advan-tage as far as contact with the public is concerned, but quite apart from this there are reasons of expediency which it would be unrealistic for us to ignore. As our patrons come to express their requirements through centralised channels, rather than as private individua's, it is, I think, reasonable and inevitable that they should wish to have some permanent architect or department to whom they can turn, who can see their demands whole and co-ordinate them. When their demands are fairly small, a part-time architectural adviser, under whose general guidance private firms can carry out the work, is, I think, perfectly adequate, pro-viding those private firms can be drawn into contract with local experience and local contact with local experience and local opinion, and can do their work with some real knowledge of the general local picture of which it forms a part.

But when the volume of work becomes large enough to justify the full-time employment of a strong team of architects and engineers and town planners—of various and complementary skills, at salaries that will attract good men. I think there is every reason for a department being formed. I suggest that this point isn't normally reached at the moment, in local government anyway, until we get to the county, or the county borough.

All the same. I would not be dogmatic about the department necessarily carrying out all the building work, but there are types of work for which I think it may be particularly fitted. For instance, if the department's building responsibility tends to centre on one type of specialized problem. I think that there is a strong case for it carrying out the whole of the work itself, if the work can be programmed to maintain a relatively even flow and that there are not acute fluctuations in volume from one year to another that might more conveniently be absorbed by a sort of buffer of private architects. Here, I think, we can see fairly simply the great advantages there are

to be gained by a process of research and development based on an intimate knowledge of the general problem, and by continual observation of the successes and failures that are brought to light in various solutions of that problem. As to whether such a department may grow state and to an extent blinded by focusing too constantly on one particular problem—and if this is so, whether it might refresh itself by co-operating with independent architects who may be able to see the problem from a new angle—I must leave to you to discuss, but I suggest that the normal turnover of staff and re-allocation of duties within the department, and particularly a spirit of close co-operative working with the client departments and the users, are perfectly adequate to avoid this danger of staleness. LONG-TERM PROGRAMMES

Even in the department whose responsibilities cover a variety of building types, there is usually at least one particular category of building involving a long-term programme. Here again I think there is a strong case for that building programme being carried out by the department rather than being split up amongst private architects, providing the department can take advantage of the special opportunities that a long-term programme offers. As with the specialist department I spoke of a moment ago, there is a chance to make the programme the subject of continual research and development carried out in very close consultation with the people who use the buildings, and to regard the production programme, as it were, as a process of progressive improvement and refinement. Approached in this way, such a programme may very well involve a degree of standardization and mass-production that may not only be economic in time and capital expenditure, but also make possible higher standards of design and performance in building meret and refinement.

Abov

right,

the w

ŀ

D

L.

SE

BR 2

BRI

1

LR

FIRS

BR

BR

LR

GR

in building parts and equipment. So far, in talking about public work, I have laid a great deal of emphasis on local contact, on the way in which departments can, as it were, identify themselves with their public. There are, however, certain types of central departments which are not in a position to do this to any great degree. I don't mean central departments which are principally advisory, but those which have an actual executive function in building. They are, anyway, comparatively few and should, I suggest, remain so. But there is a case for them, I think, when the procedures, as it were, for which their buildings are designed do not, or must not, vary very much from one locality to another; or where there is a good reason for repeating a similar, or recognisably similar, type of building. The Post Office is a case in point. But even in these types of departments I feel that it is very desirable that when the volume of work permits it they should be broken down into regional groups, under the general co-ordination of their central office.

#### PUBLIC CONFIDENCE

To sum up, then. I have tried to make a case for public departments, and to suggest to you that, although we may easily find many faults with them as they exist at present, there is really no fundamental reason why they should not develop-as some of them, I am sure, are developingin a way that can provide a background and an atmosphere with just as much elbow-room for freedom and originality as we have found in the past in private practice. I have suggested, too, that into the bargain they can stimulate a sense of purpose, of working with the community, that I think it is difficult to achieve in any other way. Of course. I am not suggesting that the public office should, for all purposes, supersede the private one. That would be ridiculous. There will surely, for a long time, anyway, be plenty of scope for the private office. But I am suggesting that, taking the long view, we should not necessarily regret that the relative balance of public and private offices is shifting.



Above, a bathroom, right, the flats from the west.

ononous her to onif by

of icnt ctly css.

on-

pes, atebros a ime iher chiake that the

ent pro-

ose

ent.

of that and ible nce

, I cal

vith

not ree.

are

ave

and is is

ary her;

re

lar,

arthat

nal

e a test

ind at atal -as

as

ac-

the urhat

all hat

for ope ing not

nce

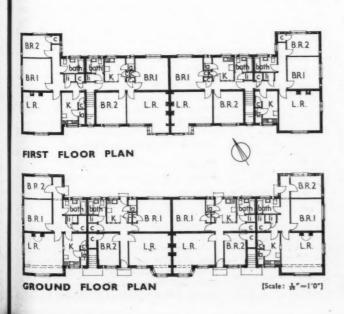
# FLATS AT NEASDEN

DESIGNED BY L. KEIR HETT OF SEARLE & SEARLE GENERAL.—A block of eight flats to provide living accommodation for some of the staff employed by the Oxford University Press at their warehouse at Neasden.

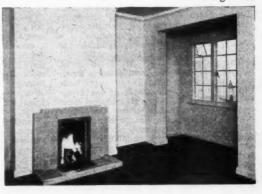
PLAN.—The first floor flats are approached by covered concrete stairs; one stair serves two flats. Each flat consists of a living room, two bedrooms, kitchen, larder, combined bath and w.c., and built-in cupboards. CONSTRUCTION.—This is traditional, with 11-in. cavity brick walls and brick and breeze internal partitions. First floor: Hollow R.C. beam construction. Finish to floors, living rooms and bedrooms: wood block. Kitchen and bathroom floors: asphalte. Windows: wood frames with metal sashes and bars.

INTERNAL FINISH.—Each flat has one open fireplace supplemented by electric fires. Flats painted throughout with cream distemper.

CONTRACTS.— Single contract, £9,860. The general contractors were Messrs. T. & C. Costin, Ltd.



The living room.



356] THE ARCHITECTS' JOURNAL for April 15, 1948

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

# TECHNICAL SECTION

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

### INFORMATION CENTRE

I SOCIOLOGY. 2 PLANNING : General. 3 PLAN-NING : Regional and Nazional. 4 PLANNING : Urban and Rural. 5 PLANNING : Public Ucilitas. 6 PLAN NING : Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN : General. 10 DESIGN : Building Types. 11 MATERIALS : General. 12 MATERIALS : Metal. 13 MATERIALS : Timber. 14 MATERIALS : Concrete. 15 MATERIALS : Miscellaneous. 17 CONSTRUCTION : General. 18 CONSTRUCTION : 7 Theory. 19 CONSTRUCTION : Bacials. 20 CON-STRUCTION : Complete Structures. 21 CONSTRUCTION : 7 TIONS: Complete Structures. 21 CONSTRUCTION : 7 CONSTRUCTION : Complete Structures. 21 CONSTRUCTION : 7 Macellaneous. 7 CONSTRUCTION : 2 SURVEY SANITATION 26 SERVICES, 8 GUIPMENT : Miscellaneous. 8 GUIPMENT : Miscellaneous. 7 FURNITURE : MISCELLANEOUS.

#### 1.6 sociology POPULATION FORECASTING

Population Forecasting for Planning Purposes. A. A. Heath. (J. Town Planning Institute, Jan.-Feb., 1948, pp. 41-51.)

Important paper describing graphical method of obtaining information required by planners on growth and grouping of population at some future date. Illustrated by charts and tables.

For the purpose of planning new towns or replanning existing towns the planner must have reasonably accurate information on the composition of the population of the town by sexes and age groups and on their grouping in different sizes of family units as it will be in about twenty years. The study of past population trends and the

The study of past population trends and the forecasting of their influence on the future has been scientifically developed to a high degree by a variety of statistical agencies. The adaptation of these detailed methods to the planner's purpose would involve an enormous amount of work, and it is explained why the results thus obtained would be of little more value to the planner than those obtained by a more rough and ready method. The paper suggests that the aggregate trends of the urban population of a county would be sufficiently applicable to all towns within that county to satisfy the planner's requirements. It is, however, necessary to treat the rural districts separately as there is normally an appreciable variation between the trends of the urban and the rural population. By adopting these two characteristic trends for the whole county and reducing the results to percentages, the composition of any crosssection of the county's population can be obtained and used with a sufficient degree of accuracy for planning purposes, thus eliminating the very considerable work required in dealing with the local population trends of each individual urban and rural district.

Based on these considerations, the paper describes in detail the process of abstracting data and of carrying through the calculations by means of a specially designed set of forms. The principle on which the forecast is made is the graphical representation of past birth and death trends produced forward into the future. The future trends so obtained from the graphs are then applied to the existing population of to-day in order to arrive at the state of the population at 'some given time in the future.

#### 5.18 planning: public utilities TRANSPORT AND PLANNING

The Place of Transport in Planning. R. B. Hounsfield. (Housing and Planning News-Bulletin, Feb.-Mar., 1948, pp. 49-51.)

General review of present-day transport problems and aspects in relation to local, regional and national planning, analysed from traffic engineer's point of view.

Conflict between recent planning theories and needs of transport operators. Local planning and traffic segregation. Importance of fairly direct "avoiding" routes. Critical comment on ring roads. Reaction of one transport system on another within regional framework seen in relation to traffic demand. Need for traffic origin and destination surveys. Benefits to be derived from improved railway facilities and canal working. Possible influence of national transport planning on arresting and reversing trend of population flow towards big cities.

5.19 planning: public utilities MOTOR ROADS

Road Location and Design, with Special Reference to Motor Roads. E. C. Boyce. (J. Institution of Municipal Engineers, Feb. 3, 1948, pp. 381-402.)

Comprehensive paper dealing with general principles and practice of motor roads location and design.

The first part of the paper discusses the general principles to which the location engineer must pay attention, both prior to undertaking field work and during actual location. Motor roads should not pass through urban or built-up areas. They should serve population centres by passing in close proximity. A four-mile limit is considered a reasonable distance, the actual connection to the town being made by means of existing radial or ring roads.

connection to the town being made by means of existing radial or ring roads. There should be as little interference as possible with farming interests along the new route. Severance of farmland becomes a question of major importance when considering that access to the motor road is not permitted, and that farm implements and stock would have to pass under or over the route. Particulars in this respect must be investigated at an early stage, especially from the point of view of construction costs.

Points of entry and exit should be limited. There should be no level crossing with existing roads in the interest of fast-moving through traffic, and provisions must be made for possible points of road intersection. It is preferable that the new road should pass over subsidiary roads, and there are a variety of ways by which to achieve a crossing,

e.g., the double-deck roundabout, the clover leaf, or the three-level fly-over.

lear, or the three-level hy-over. The landscape setting of the road in another location aspect discussed in principle, followed by some detailed considerations of route selection in relation to geological and soil features. Much thought is given to the interdependence of ulimate road construction, the class of traffic that will use the motor road, and the performance and design trends of motor vehicles. Finally, principles of actual layout are investigated, discussing objections to straight routes and types of curves suitable for change of direction.

The second part of the paper gives an introduction to the preparatory field work to be undertaken prior to actual road construction. A summary of the various stages of work provides useful information.

#### 15.18 materials : applied finishes, treatments PAINTING ALUMINIUM

Preparing Aluminium for Painting. (The Decorator, Jan., 1948. pp. 59-60.)

Importance of proper surface preparation to obtain adhesion; distinction between preparation of aluminium intended for external use and that for internal use; list of treatments; notes on suitable paint systems.

Article is a summary of information given in booklet published by Northern Aluminium Company: The Surface Preparation of Aluminium for Paint Systems.

#### 19.35 construction: details WALLS FACED WITH ALUMINIUM

Textile Mill Walls Faced with Aluminium. J. W. Davis. (Eng. News-Record [USA], Jan. 23, 1948, pp. 90-91.)

Walls of Duplan Corp. plant at Winston-Salem, N.C., faced with 16 g. aluminium sheets. Both fluted and flat sheets used.

#### 19.36 construction: details ALUMINIUM ROOFING

How to Use Aluminium Roofing Effectively. (Eng. News-Record [USA], Jan. 23, 1948, pp. 118-9.)

Practical rules and structural details for aluminium roof coverings. Data for required thickness of corrugated sheeting.

#### 19.37 construction: details

COPPER FLASHINGS

Copper Flashings and Weatherings. (Copper Development Association, 1947, and AJ, The Industry, Mar. 11, 1948.)

Handbook compiled to give practical details. A valuable reference.

#### 20.65 construction: complete structures COLD STORAGE

Cold Store for Fruit, Coton, Cambs. D. D. Bamber. (The Builder, Jan. 16, 1948, p. 86.) Statement of technical problems involved in storing fruit in carbon dioxide gas, with the resultant structional type evolved.

#### 20.66 construction: complete structures SCHOOL BUILDING: ALUMINIUM

Aluminium Unit Construction for School Building. (The Bristol Aeroplane Company (Housing) Ltd.)

Brochure describing a system of unit construction in aluminium for school buildings allowing flexibility of design. Applicable both to single and two-storey construction. Roof sections and wall panels in 4 ft. widths, spans and heights to suit various requirements. Efficient thermal insulation,



THE THINGS A HUNTER SEES WHEN HE LEAVES HIS GUN BEHIND (Boer Proverb)

Industry has at least one big pull over the jungle . . . when you're on the lookout for ideas, you don't have to carry a gun. The Reynolds companies regard their Aluminium Alloys as fair game for everyone because they combine lightness and strength and

that's what most manufacturers are hunting in one form or another. Some are interested in extrusions, some in tubes, some in sheet and strip. Reynolds make all four, and know how to turn them to other people's advantage.

lover d pringeo-sht is imate that ance nally ated

and 2 0 otro to 1 conages

The tion prernal

eat-Ven Alulion

Im A], on um

ly. 18.

or

re-

er

e-

)

n

Reynolds ALUMINIUM ALLOYS

EXTRUSIONS, TUBES, SHEET & STRIP TO ALL A.I.D., B.S./S.T.A., AND B.S. SPECIFICATIONS

REYNOLDS ROLLING MILLS LTD. (T) REYNOLDS LIGHT ALLOYS LTD.

Hay Hall Works, Tyseley, Birmingham. Telephone: Acocks Green 3333

XXXIII

THE ARCHITECTS' JOURNAL for April 15, 1948







23.55 AIR A House Webste (Prog. 80-83.) Single with underf large v The f

insulat of inte

of gla insulat

This s Solar fixed louvre heatin 24.7 HOSI Light Allph Eng. Req readi porta This good cussi abou

The cord (a) men (b) both sam (c) (d)

ditic (e) etc. (f) It

by from A o is a wh

whi

is mu qui the E por "e (th

ing fila shu

flu bin so

wo by lig

go go sti se

2

AD

For All Constructional Needs



What better service can be offered to Architects than your building Structures-and the equipment that goes in them.



LONDON : Imperial Buildings, 56 Kingsway, W.C.2. BIRMINGHAM, 3 : Lombard House, Great Charles Street MANCHESTER : 78, King Sarset.

SOUTHAMPTON : Sun Buildings, Ogle Street.

Adjustable Steel Shelving, Cup-boards, Clothes Lockers, Ward-robe Units, Office Tables, Chairs and Desks, Filing Cabinets, Waste Paper Bins, Office Screening.



COVENTRY : Britannia Works, Paynes Lane. WREXHAM : Whitegate.

xxxiv

#### 23.55 heating and ventilation AIR AND TEMPERATURE CONTROL

House at Liverpool, New York. Sargent-Webster, Crenshaw and Folley, Architects. (Prog. Architecture [USA], Jan., 1948, pp. 80-83.)

Single-storey house of timber structure with considerable glass area, embodying underfloor heating, and solar heating by large windows. Photographs and details.

The frame is of timber, the roof being well insulated; the floor ducts are formed partly of interlocked steel roof decking and partly of glazed structural tiles, with vermiculite insulation below and  $1\frac{1}{2}$  in. concrete above. This system is admitted to be expensive.

Solar heating is obtained by large areas of fixed double glazing, with controllable louvres below for admission of fresh air. The heating plant rarely operates during daylight.

#### 24.70 lighting

#### **HOSPITAL LIGHTING**

Lighting the Hospital Patient's Room. W. Allphin, C. B. Stiles, and A. Zack. Eng. [USA], Dec., 1947. p. 1028.) (Illum.

Requirements for general use, examination, reading, and post-operative conditions. Important article, excellent illustrations.

This note is important because it is quite good, and because it is the first general dis-cussion of lighting for patient's room for about ten years. The chief functional requirements are re-

corded as follows: (a) Proper colour of light for medical judg-

ments

(b) Overall lighting, to be satisfactory for both sleeping and wakeful patients in the same room.

 (c) Night-lighting.
 (d) Medium lighting for post-operative condition

(e) Light for reading in bed, wheel-chair, etc

(f) Lights for medical examinations.

It is suggested that (d) and (f) be dealt with by special portable lights. Two other points from the general discussion are noteworthy. A decision about light for reading in bed is a compromise between the portable fitting which is adjustable, and the wall fitting which is never in the way. And switching is all-important to success. The patient must have complete control, but might re-quire general light also to be switched at the door.

the door. Examples are described. One very useful portable lamp is an upward reflector with an "eye" in the side giving direct light (through a single lens) downward for read-ing. Lamps with 50-100-150 watt alternate filaments are used, and the "eye" has a shutter to cut it off when not needed. Vertical wall fittings with two small fluorescent tubes were tried in several com-binations. In each case they were arranged so that the tubes farthest from the patient

so that the tubes farthest from the patient

so that the tubes farthest from the patient would provide general light and not be seen by him, while the nearer tubes are direct light for reading. Not many of the arrangements gave very good conditions for visitors, but most were good for the patients. One has to get a high standard of comfort because of the hyper-sensitive condition of sick people.

#### 24.71 lighting **REFLECTED GLARE**

An Analysis of Reflected Glare. W. G. Darley. (Illum, Eng. [USA], Jan., 1948, p. 85.)

Forms of glare; nature of trouble and tiring effects; recommendations for practice. Quite good; illustrations.

This paper has an uncertain theme, but some valuable ideas.

Reflected glare is described as a variety of conditions where reflected light reduces contrasts. Thus reflection off paper which causes pencil lines to be less visible is a form of reflected glare. Reflections from specular surfaces where bright lights are seen are taken as analagous to direct glare. It is claimed that reflected glare is often

associated with fluorescent lighting, when the sources as seen from the work-not from the eye-are glaring. Below 30 f.c. it is often objectionable, above 50 f.c. rarely It is noted that the cause of complaints about fluorescent lights is commonly poor seeing conditions-low illumination, dark desks, and so on.

Reflections of lights from shining surfaces beside one's work can have devastating effect. The involuntary fixation on the bright spot competes with one's desire to fixate on the work and is very tiring. The fact that a reflection will appear double and thus cause visual conflicts is even more troublesome. Rough shiny surfaces give worst conditions because the images are at different distances—like watching a film out of focus.

He recommends lower source brightness, high task brightness, and better task charac-teristics (e.g., better lines on paper).

In the discussion a reminder is given that reflected glare can in some circumstances be avoided by moving one's head. Also, that it is a valuable tool in industry for judging surfaces.

#### 24.72 lighting COLOUR IN INDUSTRY

Decoration and Industrial Lighting. J. H. Nelson. (Trans. Illum. Eng. Soc., No. 9 [USA]. Feb., 1948, p. 193.)

Conditions for good vision in industry; colour harmony; practical recommendations. Photographs and diagrams.

In a general discussion the author speaks of the conditions for good vision in indus-trial work. Essentially there are two parts to the problem, the task itself and the sur-rounding view. On the task itself the detail to the problem, the task itself and the sur-rounding view. On the task itself the detail should be as large as practicable, the con-trasts of the order of 50 or 100:1, with illumination up to 1,000 e.f.c. The imme-diately surrounding field should be com-parable in brightness, coloured in the same system as the room in general. Here the principle about the uniter withcast distance principle should be variety without distrac-tion. The eyes of operatives should then be accommodating well within the range of comfort.

The illuminating engineer approaches the use of colour by his need to control the brightness of the different parts of the field of view, and the author, in this connection, reviewed recent researches on the theory of colour harmony, and the psychological effects of colour.

At the end of the discussion attention was drawn to the value of high reflection factors as a source of stimulation, valuable in industry, as well as for efficient use of light. In his own practice he generally follows these rules :-

(a) Ceilings white, eggshell finish (ref. factor 75 per cent.).

(b) Walls and tools, high colour value with reflection factor above 50 per cent. (e.g., duck-egg, stone, or cream colour). Does not like dados. Skirtings green (ref. factor 10 per cent.).

(c) Picks out small items for contrasting colours as a source of interest. (d) Get the floors cleaner and brighter.

It is claimed that the machines are kept surprisingly clean. Difficult machines are those where wet grinding is done because of the action of the coolants which splash about. Non-absorbent paint should be used such as curthatic anomely low used, such as synthetic enamels. low-temperature stoving, enamels, or brushing cellulose.

The form printed below is to assist readers requiring up-to-date infor-mation 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.

#### ENQUIRY FORM

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

********					
		******		**********	***********
Pleasc a particula	sk rs t	manufactu o:—	rers to	send	furthe
Pleasc a particula NAME	rs 1	manufactu o:—	rers to	send	furthe

A.J. 15.4.48

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

#### QUESTIONS AND ANSWERS

#### 2939 CONDENSATION IN ROOF

I have just had a new galvanised cold Q Q I have just had a new gavansed cold water storage tank installed in the roof space of my house, and during a recent warm spell I noticed patches of damp pene-tration on the bedroom ceiling below. tration on the bedroom ceiling below. Thinking that these might be due to a leak in a pipe connection, I made an examina-tion, only to find that the cause of the trouble was condensation. The outside of the tank was very wet and the ceiling joist underneath saturated. The roof is boarded and tiled and the roof space is not ventilated except by normal current of air through the eaves, etc. The tank is not larged in any way, and there is evidence that the trouble way, and there is evidence that the trouble is long-standing and not due to any work carried out recently. In view of the present difficulty in obtaining materials, I shall be glad to receive suggestions as to how this nuisance might be overcome.

Undoubtedly the cause of the exces-A sive condensation is lack of adequate ventilation. Some form of metal tray should be installed underneath the tank, large enough to catch any water which forms on the sides and drips down; the tray should be drained by a pipe through the eaves.

# In a changing work

# Timber endures

Late 18th Century Staircase at Blickling Hall, Norfolk-a National Trust Property.

> Architecture provides the most lasting monuments of Timber's usefulness to man . . . the beauty of Gothic carving in churches of 800 years ago . . . the shrine of Edward the Confessor in Westminster Abbey which still stands sound after eight centuries . . . the panelled galleries, floors and staircases of Haddon Hall and so on until we reach the creations of our own age. Amid so much that changes, Timber in one form or another is destined to play an ever developing part. With all the advantages of modern scientific development, with hardwoods and veneers from many countries, flat, shaped and metal-faced plywoods, living is enlivened by the new variety which Timber and Timber products bring to many spheres of activity.

LINSON & SONS AND VENEER MERCHANTS AND PANEL MANUFACTURERS TIMBER 130-150 HACKNEY ROAD · LONDON · TELEGRAMS & ALMONER' CABLES

TELEPHONES (Private Exchange) SHOREDITCH 8888 (3 lines) SHOREDITCH 8811 (5 lines)

Countr Life, copy-right.

The statisti buildin

#### H

TABLE I

To Dec. 1947: M AM OND

948 : J feb. Jan.

TABL

To De 1947:

1948: lacre

> TAB Toe

NU

LONDON

THE ARCHITECTS' JOURNAL for April 15, 1948

TABLE IV

The following tables summarise the official statistics on housing progress, the production of building materials and the labour position.

シーン

T

1

1

1

# HOUSING, MATERIALS AND LABOUR

#### [by Ian Bowen]

#### HOUSING

TABLE I PERMANENT HOUSES IN GREAT BRITAIN: Cumulative Totals

		Begun			Finished	
	Local Authorities	Private Builders	Total	Local Authorities	Private Builders	Total
To Dec., 1945	20,409	-	- 1	1,657	1,031	2,688
1947: March	205,159	65,864	271,023	34.436	35,430	69,866
April May June	218,815 234,395 250,292	67,826 70,684 73,181	286,641 305,079 323,473	40,425 47,726 55,642	38,184 41,465 44,356	78,609 89,191 99,998
July Aug Sept	265,689 280,197 295,469	75,741 78,582 80,208	341,430 358,779 375,677	63,975 71,646 81,983	47,316 49,813 52,323	111,291 121,459 134,306
Oct Nov Dec	308,655 320,773 329,886	82,303 83.353 84,104	390,958 404,126 413,990	92,924 104,419 117,951	55,362 57,872 60,566	148,286 162,291 178,517
1948: Jan Feb	337,227 344,810	84,657 85,197	421,884 430,007	129,617 141,746	62,634 64,916	192,251 206,662
Increase of Feb. over Jan.	7,583	540	8,123	12,129	2,282	14,411
P	ocal Author rivate Buildo Var-destroye Government Iuminium	ers d rebuilt Departmen	its	13,	281 916 981 520	141,746 64,916 21,125 788
	Tota	ı		243		910 229,485
TABLE II T	EMPORAR	Y HOUSE	S IN GRE	AT BRITAN	762 N: Cumula	229,485
TABLE II T	EMPORAR	Y HOUSE	S IN GRE	AT BRITAN	762 N: Cumula	229,485
TABLE II TH	EMPORAR Slat	Y HOUSE	S IN GRE	AT BRITAN	762 N: Cumula n E	229,485
	EMPORAR Slat	Y HOUSE	S IN GRE Slabbing Completed	AT BRITAI	762 N: Cumula m E C 2	229,485 ative Total frection completed
To Dec., 1945	EMPORAR Siat Be 61, 137, 140, 141,	Y HOUSE	S IN GRE Slabbing Completed 39,998	AT BRITAD	762 N: Cumula m E C 2 2 1 6 3	229,485 ative Total irection ompleted 9,376
To Dec., 1945 1947: March April May	EMPORAR Slat Be  61,  137,  140,  143,  147	Y HOUSE gun   008 992 ,333 ,786	Slabbing Completed 39,998 119,759 123,757 127,270	243, EAT BRITAIL Erectic Begun 22,93 111,00 115,16 118,65	762 N: Cumula m E 2 2 2 1 6 3 1 3 5	229,485 ative Total irection ompleted 9,376 01,717 106,664 11,029
To Dec., 1945 1947: March April May June July Aug.	EMPORAR' Slat Be  61,  137,  141,  143,  143,  151  152,  154,  154,  154, 	Y HOUSE bing gun 0008 992 .333 .786 .661	S IN GRE Slabbing Completed 39,998 119,759 123,757 127,270 130,735 134,956 138,352	243 EAT BRITAIN Erectic Begun 22,93 111,00 115,16 118,65 122,35 126,37 129,41	762           N: Cumula           m         E           m         Co           2         1           6         1           3         1           5         1           5         1           8         1           7         1	229,485 stive Total srection 9,376 01,717 066,664 11,029 115,986 19,960
To Dec., 1945 1947: March April May Juno July Aug. Sept. Oct. Nov.	EMPORAR' Slat Be, 61, 137, 140, 141, 143, 143, 152 154, 155, 455	Y HOUSE           bing gun           008           992           .333           .786           .769           .661           .036           .730           .042           .769	Siabbing Completed 39,998 119,759 123,757 127,270 130,759 134,956 134,956 134,352 142,359	243 EAT BRITAIN Erectic Begun 22,93 111,00 115,16 118,65 122,35 126,37 129,43 138,36 141,87	762           N: Cumula           ma         E           2         2           2         1           6         1           3         1           5         1           7         1           7         1           7         1           7         1           2         1	229,485 trive Total section 9,376 01,717 06,664 11,029 11,029 11,029 11,029 13,066 19,960 22,992 26,279 31,643 34,879

Temporary Houses Under Construction at Feb. 29: 8,211.

TABLE III		PERMANENT HOUSES (ALREADY
	INCLUDED IN TABLE D	<b>GREAT BRITAIN:</b> Cumulative Totals

							Begun	Completed
To end	I Sept.	1947	 0			,	 69 183	17,582
20	Oct.						 74,480	20,657
89	Nov.						 80,009	23,902
19	Dec.	+9					 83,904	28,602
39	Jan.	1948					 86,857	31.557
10	Feb.	82					 90,123	34,851

Non-traditional Houses Under Construction at Feb. 29: 55,272 (In addition to the above, construction had begun 'on 4,430 aluminium houses, of which 910 have been completed.)

					Unoccupied War-Damaged Houses Repaired	Conversions and Adaptations
To end	Sept. 1947	 		 	124,877	73,862
	Oct. "	 		 	126,249	76,974
	Nov. "	 		 	128.021	79,558
	Dec.	 		 	129,677	82,388
	Jan. 1948	 		 	131.825	85,284
95	Feb. "	 	• •	 ••	132,977	87,833
Increas	e of Feb. Jan.	 		 	1,152	. 2,549

TECHNICAL SECTION

HOUSING ACCOMMODATION PROVIDED OTHERWISE THAN BY NEW BUILDING: Cumulative Totals

#### BUILDING MATERIALS TABLE N

Pro- duction         Stockst         Pro- duction         Stockst         Pro- duction         Stockst           Cement         th. tons         369         253         599†         269           Bricks          301         379         361         494           Roofing materials         th. squares         51.4         40.8         65.5         69.7           Concrete tiles           12.1         27.2            Asbestos Cement            2.9†            Absetos cement            2.9†            Asbestos Cement         th. tons          24.1          2.9†            Roofing feit          th. tons          12.8          18.3†            Plaster pyreous         th. tons          12.8          19.9            Floor (Clay)          136          3.08          19.9            Cellings, Walt           3.12	Material	Unit	JanMa 194		Feb. 1948		
Cement        th. tons $301$ $379$ $361$ $494$ Bricks $301$ $379$ $361$ $494$ Roofing materials       th. squares $51.4$ $40.8$ $65.5$ $69.7$ Concret tellss               Slates                Asbestos Cement                Roofing feit       th. tons        24.1        25.1 †          Roofing feit       th. tons        24.1        25.1 †          Plaster gopseous       th. tons        12.8        18.3 †          Pipes (Wattr, Gas,       th. sq. yds.       22601       4303       3927       415         Ginzed        th. tons        12.4        196          Corpper        th. tons        12.47				Stocks‡		Stocks:	
Cernent        369       253       5997       269         Bricks        301       301       301       400         Roofing materials        301       301       401       40.8       65.5       69.7         Clay tiles         34.4       56.5       69.9       73.0         Slates <t< td=""><td>1</td><td>1</td><td></td><td></td><td>1</td><td></td></t<>	1	1			1		
Bricks       millions       301       379       361       494         Roofing materials       th. squares       51.4       40.8       65.5       69.7         Concret tiles       "       12.1       27.2       -       -         Slates       "       12.1       27.2       -       -       -         Asbestos Cement       "       -       -       2.91       -       -         Asbestos Cement       "       -       -       2.91       -	Campan	41 44 44	average)	0.60	-		
Roofing materials       th. squares $51.4$ $40.8$ $65.5$ $69.7$ Clay tiles $34.4$ $56.5$ $69.9$ $73.0$ Slates $12.1$ $27.2$ Absentor Cement $ 2.97$ Absentor Comment $ 2.97$ Absentor Comment $ 2.97$ Roofing felt $24.1$ $25.17$ Cellings, Wall       Linings and       th. tons $12.8$ $18.37$ Plaster gypacous       th. tons $12.8$ $196$ Floor (Clay) $12.8$ $196$ Plaster gypacous       th. tons $3.12$ $4.19$ Cellings, Clay       th. tons $3.12$ $3.08$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Clay tiles       th. squares       51.4       40.8       65.5       69.7         Concrete ties       34.4       56.5       69.7       73.00         Slates       "       12.1       27.2       -       -         Asbestos Cement       "       -       -       2.91       -         Asbestos Cement       "       -       -       2.91       -         Asbestos Cement       "       -       -       2.91       -         Roofing felt       th. tons       .       24.1       -       25.11       -         Roofing felt       th. tons       .       12.8       -       18.31       -       -         Plaster gopseous       th. tons       .       12.8       -       18.37       -       -         Floor (Clay)       th. sq. yds.       2.60       -       196       -       -       -       -       -       3.08       -       -       3.08       -       -       3.08       -       -       3.08       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -		munons	301	319	301	494	
Concrete tiles       , $34.4$ $56.5$ $69.9$ $73.0$ Asbestos Cement       , $12.1$ $27.2$ Asbestos Cement       ,       , $-$ -       2.97          Asbestos Cement       ,       ,       -       2.97          Roofing felt       ,       th. tons       24.1        25.17          Roofings       Wall       104       253       211         Cellings, Wall       Linings and Floorings       11.81       104       253       211         Plaster gypeous       th. tons       .12.8        18.37          Floorings       th. sq. yds.       2.601       430       3.927       415         Glazed        ,       136       -       196          Pior (Clay)        3.12       -       4.19           Coolid Floes (Cast         2.05       -       2.837          Solid Floes (Satt           3.6.0        44.9		th squares	51.4	40.8	65.5	60.7	
Slates        12.1       27.2  2.97	Concrete tiles						
Asbestos Cement       "       -       -       2.91       -         Asbestos cement       "       -       -       2.91       -         Roofing felt       th. tons       .       24 sq. yds.       181       104       253       211         Ceilings, Wall       Linings and Floorings       104       253       211         Plaster gypseous       th. tons       .       12.8       -       18.37       -         Plaster gypseous       th. tons       .       12.8       -       18.37       -       -         Floorings       th. tons       .       .       2.601       430       3.927       415         Glazed       th. tons       .				27.2	-	13.0	
Slates.       "       -       -       2.91       -         Asbestos cement sheeting       "       -       24.1       -       25.17       -         Roofing felt       th. tonls of Floorings       24 sq. yds.       181       104       253       211         Linings and Floorings       *       12.8       -       18.37       -         Plaster gypeous       th. tons       12.8       -       18.37       -         Floor (Clay)       th. sq. yds.       22.65       -       196       -         Floor (Clay)       th. tons       3.12       -       4-19       -         Copper       *       2.05       -       2.837       -         Soil Fipes (sast Glazed       *       0.35       -       0.361       -         Train Pipes, Salt Glazed       *       36.0       -       44.9       -         Rainwater Pipes, Guitters and Fittings       th. of equiv.       2.82       -       3.207       -         Mabetoo Covers       th. of equiv.       2.82       -       3.207       -         Manhole Covers       man frames       .       1.4       -       4.57       -         Sanitary	Asbestos Cement						
Asbestos cement sheeting       th. tons $24.1$ - $25.1^{\circ}$ -         Roofing felt       th. tons of 24 sq. yds.       181       104       253       211         Cellings, Wall Linings and Floorings       th. tons       12.8       -       18.3^{\circ}       211         Plaster poreous floor (Cay)       th. tons       12.8       -       18.3^{\circ}       -         Plaster poreous floor (Cay)       th. sq. yds.       2601       430       3,927       415         Floor (Cay)       th. tons       12.8       -       18.3^{\circ}       -         Plaster poreous floor (Cay)       th. tons       3,12       -       4.19       -         Pripes (Water, Gas, etc.)       th. tons       3.12       -       4.19       -         Copper       th. tons       3.12       -       4.19       -         Cata fron and Fritings        0.35       -       0.36^{\circ}       -         Manbole Covers and Frames        1.4       -       4.5^{\circ}       -         Manbole Covers and Frames        1.4       -       3.29^{\circ}       -         Metal Windows         1.4	Slates		-	-	2.91	-	
Roofing felt       th. rolls of 24 sq. yds.       181       104       253       211         Ceilings, Wall Linings and Floorings       24 sq. yds.       181       104       253       211         Plaster poreous Tiles       th. tons       12.8       –       18.3†       –         Plaster poreous Floor (Cay)       th. sq. yds.       2,601       430       3,927       415         Glazed       th. sq. yds.       2,601       430       3,927       415         Floor (Cay)       th. tons       3.12       –       619       –         Pipes (Water, Gas, etc.)       th. tons       3.12       –       4·19       –         Copper       th. tons       3.12       –       4·19       –         Cast       "       0.35       –       0·36†       –         Rainwater Pipes, Guiters and Fittings       th. of equiv. tons of cast       1.4       –       4.92†       –         Metal Windows.       1.4       –       3.29†       –       –         Metal Windows.       25.4       –       3.29†       –       –         Sonitary Fittings       m.       16.7       –       115.6       –       –         So	Asbestos cement						
Cellings, Wall Hinings and Floorings Plaster gypeous       24 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	sheeting	th. tons	24.1	-	25.11	-	
Ceilings, Wall       24 sq. yds.       181       104       253       211         Linings and       Plaster gypeous       th. tons        12.8        18.3 <sup>†</sup> Plaster gypeous       th. tons        2.601       430       3.927       415         Tiles       Glazed        th. sq. yds.       2.601       430       3.927       415         Tiles       Glazed        th. sq. yds.       2.601       430       3.927       415         Floor (Clay)        136        196          7.08           2.637        3.08             2.637        3.08              2.637        3.08            3.08         1.61 <t< td=""><td>Roofing felt</td><td>th. rolls of</td><td>101</td><td></td><td></td><td></td></t<>	Roofing felt	th. rolls of	101				
Plaster gypeous       th. tons       12.8        18.37         Plasterboard       th. sq. yds.       2,601       430       3,927       415         Tiles       Calazed       th. sq. yds.       2,601       430       3,927       415         Glazed       th. sq. yds.       428        196         7         Pics (Water, Gas, etc.)       th. tons       3,12        4-19	Linings and	24 sq. yas.	181	104	253	211	
Plasterboard       th. sq. yds.       2,601       430       3,927       415         Glazed        th. sq. yds.       428       -       619       -         Pipes (Water, Gas, etc.)        136       -       196       -         copper        th. tons        3.12       -       4.19       -         Copper         2.47       -       3.08       -         Soil Fipes (cast        2.05       -       2.83 /       -         Corper        0.35       -       0.36 /       -         Cast Iron and Frittings        36.0       -       44.9       -         Cast Iron and Frames       th. of equiv. tons of cast iron        36.0       -       44.9       -         Manhole Covers and Frames       th. of equiv. tons of cast iron        3.207           Sanitary Fittings       Baths         3.62       3.38       2.96       3.5         Sanitary Fittings         75.5        101.1          Sokers       <	Plaster gynseous	th. tons	12.8	-	18.31	_	
Tiles Glazed       th. sq. yds.       428       -       619       -         Floor (Clay)       "       136       -       196       -         pices (Water, Gas, etc.)       "       136       -       196       -         Lead       .       th. tons       3.12       -       4-19       -         Copper       "       2.47       -       3-08       -         Soil Pipes (east       "       2.05       -       2-83 †       -         Cement)       "       0.35       -       0-36 †       -         Prain Pipes, Salt       "       36.0       -       44-9       -         Rainwater Goods,       "       .       36.0       -       44-9       -         Rainwater Pipes, Goats       "       .       36.0       -       44-9       -         Mashole Covers       th. of equiv.       2.82       -       3.20 †       -         Mashole Covers       Mn. ft. sup.       3.62       3.38       2-96       3.5         Sanitary Fittings       "       .       .       .       .       .       -         WcC. Pans       "       .       .	Plasterboard			430		415	
Glazed       th. sq. yds. $428$ - $619$ -         Pipes (Water, Gas, etc.)       " $136$ - $196$ -         Pipes (Water, Gas, etc.)       " $136$ - $196$ -         Copper       " $2.47$ - $3.08$ -         Soil Pipes (cast       " $2.05$ - $2.837$ -         Mathematic Corenent)       " $0.35$ - $0.367$ -         Drain Pipes, Salt       " $0.35$ - $0.367$ -         Rainwater Goods, Rainwater Pipes, Gutters and Frittings       " $36.0$ - $44.9$ -         Asbestos Cementi Goods       " $36.0$ - $44.9$ -         Asbestos Cementi Goods       " $36.2$ $3.38$ $2.96$ $3.5$ Sanitary Fittings       " $51.3$ - $101.1$ -         Metal Windows       " $51.3$ - $101.1$ -         Solid Fuel       " $14.4$ - $29.3$ -         Goods       " $51.3$	Tiles				1	-10	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Glazed	th. sq. yds.		-		-	
etc.)       Lead $3.12$ $4.19$ Copper $2.47$ $3.08$ Soil Pipes (cast $2.47$ $3.08$ Soil Pipes (cast $2.05$ $2.831$ Cement) $0.35$ $0.361$ Rainwater Pipes, Salt $36.0$ $44.9$ Rainwater Pipes, Cast Iron and       th. of equiv. $4.14$ $4.51$ Gast Iron and Frames       th. tons $1.4$ $4.921$ Manhole Covers and Frames       tho f cast iron $3.62$ $3.38$ $2.96$ $3.5$ Sanitary Fittings       mas. r $51.3$ $101.1$ Solid Fuel $86.7$ $115.6$ Cookers $86.7$ $115.6$ Solid Fuel	Floor (Clay)		136	-	196		
Lead        th. tons $3.12$ $4\cdot 19$ Soil Fipes (cast       " $2.47$ $3\cdot 08$ Soil Fipes (cast       " $2.47$ $3\cdot 08$ Soil Fipes (cast       " $2.05$ $2\cdot 83 \dagger$ Drain Pipes, Salt       " $0.35$ $0\cdot 36 \dagger$ Rainwater Goods,       " $36.0$ $44\cdot 9$ Rainwater Pipes,       " $36.0$ $44\cdot 9$ Cast Iron and       th. of equiv. $4.14$ $4.51$ Manhole Covers       inon $1.4$ $3.207$ Mathole Covers       inon $3.62$ $3.38$ $2\cdot96$ $3.5$ Sanitary Fittings       thousands $25.4$ $3.207$ Lavatory Bains       " $75.5$ 101.1 $70.1$ Soike Puel       "       " $75.3$	Pipes (Water, Gas,						
Copper       "       2.47       -       3.08       -         Soil Fipe (cast iron       "       2.05       -       2.83†       -         Cement)       "       0.35       -       0.36†       -         Rainwater Pipes, Gutters and Fritings       "       36.0       -       44.9       -         Asbestos Cement Gods       "       36.0       -       44.9       -         Asbestos Cement Gods       th. of equiv. tons of cast iron       4.14       -       4.5†       -         Manhole Cover, Santary Fittings       M.R. sup.       3.62       3.38       2.96       3.5         Metal Windows       M.R. sup.       3.62       3.38       2.96       3.5         Santary Fittings       "       "       14.7       -       17.8       -         Cooker       "       "       14.7       -       17.8       -       -         Solid Fuel       "       "       18.4       -       11.4       -       -         Gas       "       "       14.7       -       17.8       -       -       -         Solid Fuel       "       "       18.4       -       11.4       - </td <td></td> <td></td> <td>2.12</td> <td></td> <td>4.40</td> <td></td>			2.12		4.40		
Soil Pipes (cast iron) (Asbestos Cement) $2.05$ $2\cdot83\dagger$ Drain Pipes, Salt Glazed $0.35$ $0\cdot36\dagger$ Asbestos Cast Iron and Frittings $36.0$ $44\cdot9$ Asbestos Cement Goods $36.0$ $44\cdot9$ Asbestos Cement Goods        th. of equiv. tons of cast iron $4.14$ $4.5\dagger$ Mathole Covers and Frames $1.4$ $1.92\dagger$ Metal Windows       Mn. ft. sup. $3.62$ $3.38$ $2\cdot96$ $3.5$ Sanitary Fittings Baths $75.5$ $101.1$ Soinks $75.4$ $34\cdot6$ $75.5$ $101.1$ Soinks $75.4$ $115.6$ Cookers $75.3$ $70.1$ Soid Fuel        <				-		-	
ion)        2.05        2.83†          Cement)        0.35        0.36†          Rainwater Pipes, Guiters and Fittings        36.0        44.9          Rainwater Pipes, Guiters and Fittings         36.0        44.9          Asbestos Cement Goods                Manbole Covers and Frames       th. of equiv. thos of cast       1.4        1.92†          Manbole Covers and Frames       th. tons        1.4        1.92†          Manbole Covers and Frames       tho of equiv. tons of cast       2.82        3.20†          Manbole Covers and Frames       thousands        25.4        3.4.6          Sanitary Fittings       mass          10.1          Solid Fuel           115.6           Cookers	Soil Pipes (cast	99 **	2.41	_	3.08	-	
(Asbestos        0.35        0.36†          Drain Pipes, Salt       "       36.0        44.9          Rainwater Goods       "       36.0        44.9          Rainwater Goods       "       36.0        44.9          Rainwater Goods       "       36.0        44.9          Cast Iron and Fittings       th. of equiv. tons of cast iron       4.14        4.5†          Asbestos Cement Goods       th. of equiv. tons of cast iron       1.4        1.92†          Manhole Covers and Frames       th. of equiv. toss of cast       2.82        3.20†          Metal Windows       Mn. ft. sup.       3.62       3.38       2.96       3.5         Sanitary Fittings        ms. ft. sup.       3.62       3.38       2.96       3.5         Sanitary Fittings         75.5        101.1          Sokids Puel          70.1           Solid Fuel			2.05	-	2.831		
Cerrently          0.35          0.361            Glazed           36.0          44.9            Rainwater Pipes, Gutters and Fittings           36.0          44.9            Cast Iron and Pressed Steel         th. of equiv. tons of cast         4.14          4.5t            Asbestos Cement Goods         th. tons          1.4          1.92t            Manhole Covers and Frames         th. of equiv. tons of cast         2.82          3.20t            Metal Windows           1.4          1.92t            Manhole Covers and Frames         thos ands          2.82          3.20t            Manhole Covers         thousands          2.5.4          34.6            Lawatory Basins         "            115.6            Cookers          "           115.6	(Asbestos						
Glazzd	Cement)	89	0.35	-	0.36†	-	
Rainwater Goods, Guitters and Fittings       th. of equiv. tons of cast       4.14       -       4.5t         Cast Iron and Pressed Steel       th. of equiv. tons of cast       4.14       -       4.5t       -         Asbestos Cement Manhole Covers       th. of equiv. tons of cast       1.4       -       1.92t       -         Manhole Covers       th. of equiv. tons of cast       1.4       -       1.92t       -         Mathole Covers       th. of equiv. tons of cast       2.82       -       3.20t       -         Metal Windows       Ma. ft. sup.       3.62       3.38       2.96       3.5         Sanitary Fittings         75.5       -       101.1       -         Sinks          75.5       -       101.1       -         Solids Puel          75.5       -       101.1       -         Solid Fuel          14.7       -       115.6       -         Cookers          14.4       -       29.3       -         Gas           46.3       - <td< td=""><td>Drain Pipes, Salt</td><td></td><td></td><td></td><td></td><td></td></td<>	Drain Pipes, Salt						
Pressed Steel       th. of equiv. tons of cast iron       4.14       -       4.5t       -         Asbestos Cement Goods       th. tons of cast iron       1.4       -       1.92t       -         Manhole Covers and Frames       th. tons .       1.4       -       1.92t       -         Metal Windows.       Mn. ft. sup.       3.62       3.38       2.96       3.5         Sanitary Fittings       mashing       .       75.5       -       101.1       -         Lavatory Basins       "       .       51.3       -       70.1       -       -         Cookers       .       .       14.7       -       17.8       -       -         Gas       .       .       .       18.4       -       11.4       -         Gas       .       .       .       .       32.8       -       33.4       -         Furnace Pans (Solid Fuel       .       .       4.5       -       6-1       -       -         Solid Fuel       .       .       .       1.43       -       1.7       -         Solid Fuel       .       .       .       .       1.43       -       1.7       -	Rainwater Goods, Rainwater Pipes, Gutters and Fittings		36.0	-	44-9	-	
tons of cast iron           Goods           th. tons           Manhole Covers and Frames           Metal Windows           Metal Windows           Matal Windows           Marks           Sinks           Thousands         2.82           January Basins           Sinks         3.62         3.38         2.96         3.5           Matal Windows         Math R. R. sup.         3.62         3.38         2.96         3.5           Baths         3.62         3.38         2.96         3.5           Sinks         101.1         Colspan="2">Colspan="2">Colspan="2">2.96         2.15.6         101.1         Colspan="2">Colspan="2">2.91.6         2.93.3         Colspan="2"Colspan="2	Cast Iron and	the second			4		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		tons of cast iron	4.14	-	4.57	-	
Manhole Covers and Frames       th. of equiv. tons of cast iron       2.82       -       3.20†       -         Metal Windows        Mn. ft. sup.       3.62       3.38       2.96       3.3         Sanitary Fittings       Baths         3.62       3.38       2.96       3.3         Baths          75.5        101.1          Sinks          75.5        101.1          Sinks          75.5        101.1          Soliks          75.5        101.1          Solids          75.6        101.1          Solids          76.7        115.6          Cookers          14.7        17.8          Fires, Solid Fuel          28.0        40.0          Gas							
and Frames         tons of cast iron         iron         and iron           Metal Windows.         Mn. ft. sup.         3.62         3.38         2.96         3.5           Sanitary Fittings         thousands         25.4			1.4	-	1.921	-	
Metal Windows         iron Sanitary Fittings         iron Mn. ft. sup.         3.62         3.38         2.96         3.5           Baths	Mannole Covers		2.84	-	3.201		
Metal Windows.       Mn. ft. sup. $3.62$ $3.38$ $2.96$ $3.53$ Baiths        thousands $25.4$ $34.6$ Lavatory Bains       " $75.5$ $101.1$ Sinks       " $51.3$ $70.1$ W.C. Pans       " $86.7$ $115.6$ Cookers       "       14.7 $115.6$ Solid Fuel       " $14.4$ $29.3$ Fires, Solid Fuel       " $66.3$ $90.6$ Wash Boilers $32.8$	and rightics			1			
Sanitary Fittings       thousands       25.4	Metal Windows		3.62	3.38	2.96	3.52	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sanitary Fittings			1			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Baths	thousands		-			
$\begin{array}{c cccc} Cookers \dots & & & & & & & & & & & & & & & & & & $			75.5	-	101.1	-	
$\begin{array}{c cccc} Cookers \dots & & & & & & & & & & & & & & & & & & $	MAC Dame		31.3	-	70.1	-	
Solid Fuel       ,       14.7        17.8          Gas       ,       14.4        29.3          Gas       ,       28.0        40.0          Fires, Solid Fuel       ,       66.3        90.6          Wash Bollers         18.4        11.4          Gas        18.4        11.4          Gas	Cookers		80.7	-	115.6	-	
Electric.       "       14.4       -       29.3       -         Gas       "       28.0       -       40.0       -         Fires, Solid Fuel.       "       66.3       -       90.6       -         Wash Boilers       "       18.4       -       11.4       -         Gas       "       32.8       -       33.4       -         Furnace       Pans       .       4.5       -       6-1       -         Solid Fuel        1.43       -       1.7       -	Solid Fuel		14 7	-	17.8		
Gas         28.0        40.0          Wash Boilers        66.3        90.6          Wash Boilers        18.4        11.4          Electric.         18.4        11.4          Gas         18.4        11.4          Furnace Pans          6.1          Solid Fuel        1.43        1.7          Softwood Timber        1.43        1.7	1711			-	29.3	-	
Fires, Solid Fuel.     "      66.3     —     90.6     —       Wash Boliers     "      18.4     —     11.4     —       Gas      "      32.8     —     33.4     —       Furnace     Pans     "      4.5     —     66.1	Gas		28.0	-			
Electric.          18.4          11.4            Gas          32.8          33.4            Furnace Pans (Solid Fuel)          4.5          6-1            Solid Fuel          1.43          1.7            Solid Sudd Fuel          1.43          1.7	Fires, Solid Fuel.		66.3	-	90.6	_	
Electric.          18.4          11.4            Gas          32.8          33.4            Furnace Pans (Solid Fuel)          4.5          6-1            Solid Fuel          1.43          1.7            Solid Sudd Fuel          1.43          1.7	Wash Boilers			1	1		
Furnace Pans (Solid Fuel)      4.5      6.1        Solid Fuel      1.43      1.7        Softwood Timber (Imports and      1.43      1.7	Electric.					-	
(Solid Fuel) thousands 1.43 — 6.1 — Solid Fuel thousands 1.43 — 1.7 — (Imports and	Gas		32.8	-	33.4	- 1	
Solid Fuel thousands 1.43 — 1.7 — Softwood Timber (Imports and	Furnace Pans				1		
Softwood Timber (Imports and	Solid Fuel	thomande	4.3	-		-	
(Imports and		enousanus	1.43	-	1./	-	
				1			
	Home Produced)	th. stds	44.9	117.0	81.15	589.7	

#### LABOUR

TABLE VI BUILDING AND CIVIL ENGINFERING LABOUR IN GREAT BRITAIN: Operatives Employed, aged 16 and over

Type of Work	July, 1945	Jan. 1947†	Feb. 1948
Total	535.0	953.0	978.0
Housing Permanent (Construction,	343.9	606.9	556.4
and preparation of sites)	17.4	229.9	259.3
<sup>a</sup> Other (repairs, etc.)	14.5 312.0	27.1 349.9	7.1 290.0
Other Work	191.1	345,1	421.6

In thousands † No comparison can be made with February, 1947, as labour figures for that date were not published.

[359

### Announcements

The International Housing Exhibition will be held at the Empire Hall, Olympia, from November 9-18. The exhibition is being particularly designed to encourage interest amongst foreign buyers. There will be 200 representative exhibitors, drawn from trades

representative exhibitors, drawn from trades concerned with the housing and equipping of houses, factories, offices, etc. An International Congress of Architectural Students, arranged by the Architectural Students Association, is to be held in London from August 24 to September 2. The object of the Congress is to develop an under-tanding between architectural students in standing between architectural students in all countries by assessing their theories of architecture, work and technical development. There will also be a presentation of contemporary British architecture by means of an exhibition of work and a series of discussions, lectures and visits. The exhibition will include a large selection of manufacturers' goods. The congress is intended to be the first of a yearly series. The cuts in the Government's building

programme have brought vocational training for the building industry in Wales almost to an end. Only remaining Ministry of Labour training centres for the building industry in Wales are at Swansea and Cardiff, and neither functions full time. According to the Ministry of Labour mid-month statement in ch unfilled vacancies for craftsmen building and civil engineering in March in Wales, although below last year's figure, numbered 1,000 carpenters and plasterers being in most urgent demand. The number being in most urgent demand. The number of men and women in training under the vocational training scheme in Wales fell from 1,223 on October 20, 1947, to 533 on February 9, 1948, due to the suspension of intake to building trade classes. The total number of trainees in attendance at building and civil againgeating classes on February 0 and civil engineering classes on February 9, 1948, was 111, compared with 727 on Oct-

ober 20, 1947. During the second half of 1947, 1,813 trainees were placed in their training trade in the building industry.

annual general meeting of the The Gloucestershire Gloucestershire Architectural Association has been held in Gloucestershire. The president, Mr. C. V. Dancey, was re-elected for a further year of office, and Lieut.-Col. Eric Cole was re-elected as vicepresident. It was agreed that a salaried secretary should be appointed, with Mr. R. W. Paterson continuing to act as hon. secretary, while Mr. H. F. Trew was re-elected as hon, treasurer. The council elected as hon. treasurer. The council elected as hon. treasurer. The council elected for the ensuing year will consist of Messrs, F. C. Ravenhill, H. Stratton Davis, S. E. Urwin, J. J. Smith, S. S. Careless, I. M. Williams, J. L. Jones, with R. B. Lewis as students' representative. The council's compute second councils. council's annual report gave the member-ship at 152, and mention was made of the co-operation of architects with the local authorities in surveying flood damage caused last year; of contact made with Ger-man architects who were prisoners-of-war, and of Association activities, especially the wide programme carried out by the Students' Section under Mr. C. R. Sharp. The Dean of Gloucester (Dr. H. Costley White) presented prizes of books to students who had been successful in architectural competitions promoted by the Association. The meet-ing concluded with a debate on the future of the Wessex Society of Architects—the regional body of which the Association forms a branch—and of future activities for the Association.

Dr. Oscar Faber has taken into partner-ship: S. Vaughan, B.SC., M.I.C.E., M.I.STRUCT.E., A.C.G.I.; K. Montgomery-Smith, B.SC., M.I.C.E., M.L.STRUCT.E.; J. R. Kell, A.M.I.MECH.E., M.I.H.V.E., M.INST.F.; C. R. Glover, B.Sc., M.I.C.E., MISTRUCT.E.; and John Gordon Faber, B.Sc., A.M.I.C.E., A.M.ISTRUCT.E., M.SOC.C.E.(FRANCE), A.M.INST.W., A.C.G.I. The firm will in future be known as Oscar Faber and Partners, consulting engineers (civil, structural, mechanical, heating, air condition-ing, electrical), and will continue at present to operate from 1, Worley Road, St. Albans (telephone, St. Albans 5561/2) and 4, Veru-lam Buildings, Gray's Inn, London, W.C.1 (telephone, Holborn 2239/40).

Bronek Katz, DIPL.ING.ARCH., and R. Vaughan, A.A.DIPL, A.R.I.B.A., architects, have moved their offices to No. 35, Welbeck Street, W.1 (Welbeck 8855), to which address all trade catalogues, etc., should be sent.

Mr. G. F. Wilson, L.R.I.B.A., has become the London partner of Jack Cotton, Ballard and Blow, practising at Dorland House, Regen Street, S.W.1. He will be pleased to receive trade catalogues, etc., at that address,

# Publications Received

Fashionable Brighton. Antony Dale.

Fashionable Brighton. Antony Dale. Country Life, £2 2s. The City of Tomorrow. Le Corbusier. Architectural Press, 15s. The Regency Style. Donald Pilcher. Batsford, 15s. Local Style in English Architecture. T. D. Atkinson. Batsford, 15s. An Introduction to Standards in Building. D. Dex Harrison. Spon, 8s. 6d. Floor Finishes. Penelope Whiting. Spon, 7s. 6d.

7s. 6d. The

The Architectural Setting of Ang Worship. G. W. O. Addleshaw Frederick Etchells. Faber, 25s. Anglican and

Stuart and Georgian Churches. Marcus Whiffen. Batsford, 25s. John Lees-Milne.

The Age of Adam. Batsford, 21s. Training for Industrial Dec. Gloag. Allen & Unwin, 8s. 6d. Self for Industrial Designers. John Gloag.





onent ans ru-C.1

R. eck nich be

the and gent eive

IS

d

Dale. Isier.

ture. ding. ipon, lican and arcus lilne.

ners.

#### THE ARCHITECTS' JOURNAL for April 15, 1948



The SMITH TWO-WAY reinforced fireproof floor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks.

The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.



# what is STRAMIT?

STRAMIT is a new, light-weight, insulating, structural board, simple and economical to use, and FREE of LICENCE.

STRAMIT is straw + pressure + heat.

STRAMIT is light, rigid, tough. easily worked with ordinary carpenters' tools.

STRAMIT is suitable for all forms of partition, for wall linings, ceilings, roof and floor insulation, exhibition and window display.

STRAMIT boards are sold at a competitive price in 8 ft. x 4 ft. sheets, 2 in. thick.

For further particulars apply to your nearest Lloyd Board Distributor, or to

**BOWATERS BUILDING** LIMITED BOARDS 15 PORTMAN STREET, LONDON, W.1



### PRISMALUX DIRECTIONAL LIGHTING UNITS BY

This new Die-cast Prismatic Fitting replaces the old style bulkhead fitting. For horizontal or vertical mounting. Write for booklet AJ/L.580./1.



Tel. : TRAfford Park 1801 (3 lines) OLD TRAFFORD LONDON OFFICE · 34 VICTORIA STREET LONDON SWI .

THE

# To all concerned in planning and building homes

We have had over 30 years' specialized experience in the design and production of electric fires, cookers and domestic electric appliances. Our present production is.largely devoted to orders for Housing Schemes and enquiries from architects and builders are always welcome.

The fire illustrated is the popular Belling Wall Panel Fire.

N G E D

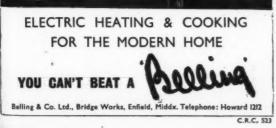
IAL

2

LTD

SW







Each of the 75 grades in the Bostik series of Adhesives and Sealing Compounds is designed to make a strong, resilient joint between particular materials. For example, there is Bostik 321 used for waterproof sealing of overlap riveted joints in aircraft. Used with Bulldog Upholstery Cement, fabric can be secured firmly to metal. Again, Bostik 'C' makes a perfect union with rubber and metal. These, and other grades equally efficient and versatile, have been tested and proved in peace and war, and are in constant use in important industries such as:— Aircraft, Motor, Housing, Shipbuilding, Radio, Furnishings.

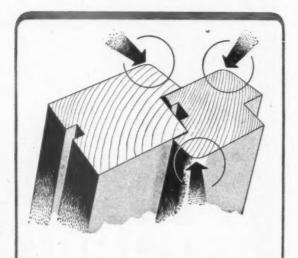


The BOSTIK MAN who represents our technical and research departments is at your service. Call him in to advise on any problem of adhesion and sealing.

BOSTIK SERIES OF ADHESIVES The word "Bostik" is a registered trade mark of B.B. Chemical Co. Ltd.

THE B. B. CHEMICAL CO. LTD., LEICESTER Adhesive Engineers for Industry.

# Refinements in the true RIPPER tradition



The rounded arrises illustrate a characteristic Ripper refinement of finish.

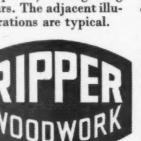


lay bars.

We have available from stock the entire range of MM windows, to B.S.I. Specification, which can also be supplied (if required) with glazing bars. The adjacent illustrations are typical.



with hars



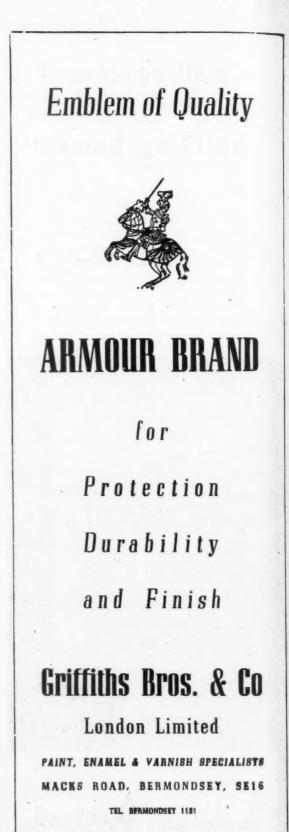


**IV46** 

lay bars.

1v46 with bars.

Rippers Ltd., Castle Hedingham, Essex Phone: Hedingham 191 (4 lines) London: 9 Southampton Place (Suite 16) W.C.1 Phone CHAncery 8306/7



xl

THE ARCHITECTS' JOURNAL for April 15, 1948

# PLIMBER announce 2 NEW DEVELOPMENTS

# PLIMBERCORE

A slightly more dense Plimber in  $\frac{1}{2}$ " boards 8' 0"  $\times$  3' 6", designed primarily as a core for veneering. "Plimbercore" has been produced at the request of consumers and has been found to be an ideal material by leading veneering firms.

### PLIMBER Density FLOORING TILES

An exceptionally attractive and hard wearing parquet type tile. They may be laid over concrete or existing floors and attractively stained and wax polished. Available in  $12^{"} \times 12^{"} \times 5_8^{"}$ , and  $12^{"} \times 4^{"} \times 5_8^{"}$  nominal, they are licence free and exempt from purchase tax.

SAV

You are invited to write for this

PLIMBER BOOKLET

which gives full information

and retail prices. Apply enclosing 21d. stamp

to

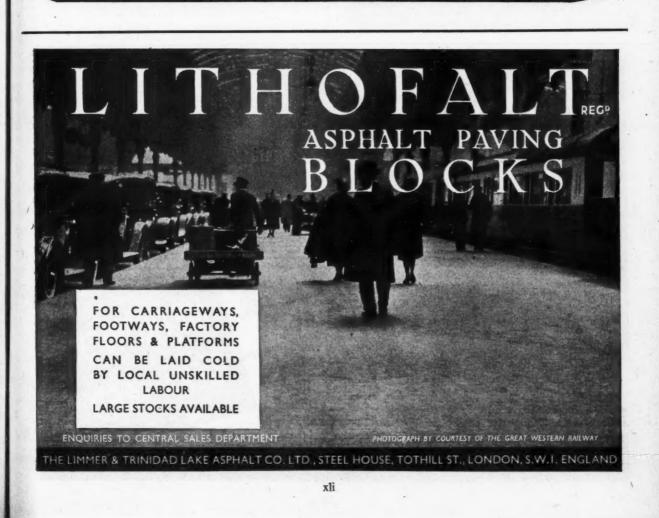
o any of the distributors listed here.

\* Full information and prices may be obtained from any of the distributors listed below

WHOLESALE DISTRIBUTORS: C. F. Anderson & Son, Ltd., Harris Wharf, Graham Street, London, N.I. Alvin Merris, Ltd., Black Bull Street Saw Mills, Leeds, 10. John Bland & Co. Ltd., East Moors, Cardiff. C. V. Creffield & Co. Ltd., Leyborne House, Leyborne Avenue, Northfields Avenue, London, W.I.3. Gebriel, Wade & English Ltd., Aldwych House, Aldwych, London, W.C.2. Graham & Wylie Ltd., Greenhead Sawmills, Mill Street, Glargow, S.E. Hersley Smith & Co. (London), Ltd., Cannon Wharf, Evelyn Street, London, S.E.8. Harsley Smith & Co. Ltd., Hedon Road, Hull. Horsley Smith & Co. (West & North), Ltd., Poplar Farm, Bamber Bridge, Preston. W. W. Howard Bros & Co. Ltd., 4 Stanhope Street, Euston Road, London, N.V.I. Jewson & Sons, Ltd., Colegate, Norwich. Jewsons Ltd., Great Western Docks, Plymouth. Mallinson & Eckersley Ltd., Worsley Street, Salford, 3. Midland Wallboards Ltd., St. Vincent Street, Birmingham 16. The Scotish Speedwell Co. Ltd., 245 Crewnpoint Road, Glargow, S.E.

BRITISH PLIMBER LTD., 90 REGENT ST., LONDON, W.1 · REGENT 5765

PLIMBER AND



THE ARCHITECTS' JOURNAL for April 15, 1948 BELLS AND TOWER CLOCKS SHELL-MEX HOUSE, LONDON Dia. of dials 25 ft. Messrs. C. F. Joseph, Archts. Sectional Model of a House by British Steel Houses Ltd. TOWER CLOCKS DETAIL-PERFECT SCALE MODELS of all types, with dials from 2 ft. dia. upwards Architectural Models built to scale by Bassett-Lowke are so "detail perfect" they reproduce the very atmosphere of the original and create an irresistible appeal **RINGING PEALS, CHIMES** to eye and mind. CARILLONS, SINGLE BELLS Your enquiries for any type of scale model—Interiors, Buildings, Town Planning Schemes, etc .- are cordially Please let us have your enquiries invited. We shall be pleased to send you our catalogue illustrating every type of model produced at our Works. Please quote ref. SM/27. GILI TD YDON. BASSETT-LOWKE RO SUR LTD. Founders of Famous Bells NORTHAMPTON Tel.: Thornton Heath 3221 (5 lines) London Showrooms : 112 High Holborn, W.C.I Manchester : 28 Corporation Street B. Bamatin Hours into minutes The manufacturer will save hours by installing Metrovick Infra-Red plant. For instance the drying time taken for the operation illustrated ran into weeks of air drying. The Infra-Red plant installed reduced this time to 4 minutes. Send for details of Infra-Red plant for your particular industry. Switch to METROVICK INFRA - RED Drying Balsa wood for model aircraft after soaking in water

Tret

to

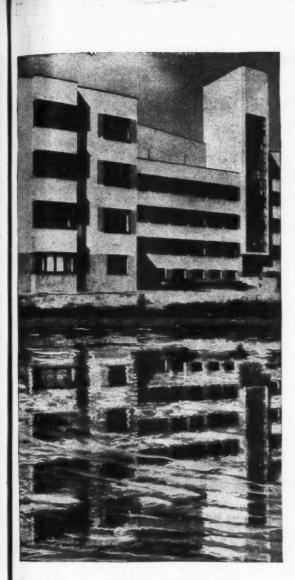
wat

agai out che

TRE

Kindly send for illustrated Brochure 7108/1-1

METROPOLITAN-VICKERS ELECTRICAL CO. LTD · NUMBER ONE KINGSWAY · LONDON / W.C.2



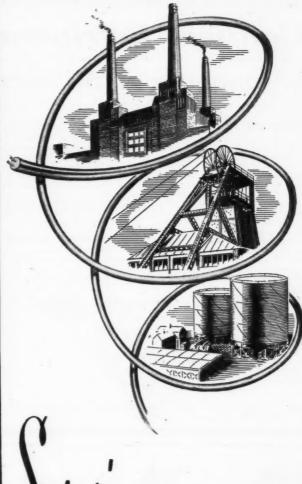
wke mopeal ors, ially

).

Tretol Liquid Waterproofer when added to the gauging water will permanently waterproof mass concrete and renderings against strongest sub-soil water pressure without any deviation from normal work. Its chemical action guarantees absolute efficiency.

TRETOL LTD. 12-14 North End Road, London, N.W.11 Tel. Speedwell 4621 (5 lines)





# Service for recovery

THE restoration of our economy depends in the initial stage upon producing more electricity, more coal and more gas. Hence the power station, the coal mine and the gas works have prior claim on the output of 'Pyrotenax' M.I. Cables. Every length of 'Pyrotenax' supplied for these purposes, however, brings nearer the day when, with their outstanding advantages, they will become more readily available to other users in the home market.



PYROTENAX LIMITED, HEBBURN-ON-TYNE Telephone: Hebburn 32244/5

LONDON OFFICE: 7 Victoria Street, S.W.I 'Phone: ABBey 1654/5 BIRMINGHAM OFFICE: Nelson House, 2 Moor Street, 4 'Phone: Midland 1265

GD38

# Lightfoot Refrigeration

## THE CAPITAL VALUE OF YOUR REFRIGERATING EQUIPMENT

## DEPENDABILITY

The most essential requirement of a refrigerating plant is that it should be consistently dependable through many years of continuous operation. Mechanical failure can easily result in loases of perishable goods held in store, or of output from a manufacturing process, of considerable financial value. In the design and construction of Lightfoot plant more importance is, therefore, attached to reliability than to anything else. The risk of mechanical breakdown in Lightfoot plant has been reduced to the absolute minimum that engineering skill can contrive.

## ECONOMY

Lightfoot plant saves running expenses and costs of repairs because nothing is skimped in design, in materials, or in workmanship. The various devices by which first cost can be reduced, at the expense of increased power consumption and a shorter life of the equipment, are not tolerated in Lightfoot plant.

## SUITABILITY

All Lightfoot plant is specially designed to meet each user's individual needs in the most efficient manner. The Lightfoot company's engineers, who are men of exceptional qualifications in a highly specialised field, take into consideration during the preliminary survey all circumstances affecting the design and operation of a proposed installation.

## RESEARCH AND TESTING

The Lightfoot company try out new developments in refrigerating equipment at the Cold Stores and Ice Factories which they own throughout Britain. These establishments provide ideal facilities and experience for tests under normal conditions of working.

## CAPITAL COST

Sometimes Lightfoot plant may cost a little more to install, but generally it is competitive in price. Sometimes it costs less. However, experience has proved again and again that the only true measure of cheapness is the degree of economical and reliable service which is given by the plant over a long period.

58

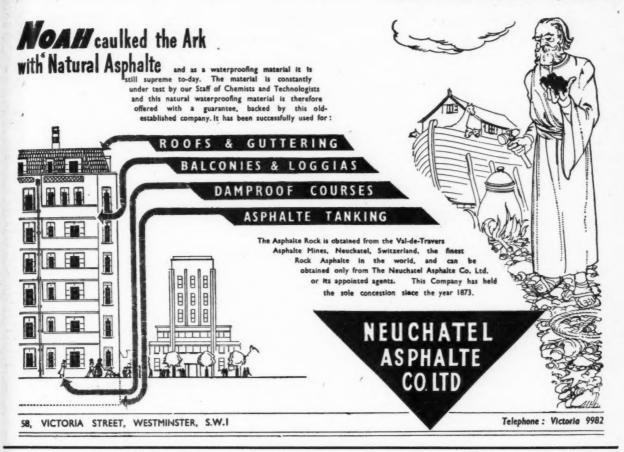
## THE LIGHTFOOT RANGE OF REFRIGERATING PLANT

The Lightfoot company supply refrigerating plants to operate with either methyl chloride or freon in sizes from  $\frac{1}{4}$  h.p. to 35 h.p. For larger users, ammonia machines are supplied in sizes up to 500 h.p.



## THE LIGHTFOOT REFRIGERATION COMPANY LIMITED, Abbeydale Road, Wembley, Middlesex







# Sharp Bros. & Knight Limited

## JOINERY MANUFACTURERS

Specialists in the manufacture of Joinery and Doors to Architects' details for 60 years

## Quality—Service—Satisfaction

Head Office and Works :-Shobnall Road, Burton-on-Trent Tel.: Burton 3350 (5 lines)

London Office :--Lion House, Red Lion Street, Richmond, Surrey Tel.: RIChmond 0165 (2 lines)

xlv

## CLASSIFIED ADVERTISEMENTS

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

paper. Replies to Box Numbers should be addressed sare of "The Architects' Journal," at the address given above. None of the vacancies in these columns relates

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

## **Public and Official Announcements**

6 lines or under, 10s.; each additional line, 1s. 6d. THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having s-aff vacancies. Appleases: 75, Earon Place, LONDON, S.W.1. TEL SLOAMS 5615. 961

LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ABCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN. Applications are invited for a number of posi-tions in the following grades :-PLANNING OFFICER. Grade III, £550 to 2700 a var.

2700 a year. TECHNICAL ASSISTANT. 55s. a week to

TECHNICAL ADDISTANT. 2500 a year. Commencing rate of pay will be according to qualifications and experience. There will be opportunities for competing, on merit, in due coarse for permanent appointment and for posi-tions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

to the Council's Superannuation and Provident Fund. The planning work involved includes assist-ance in the detailed development of Reconstruc-tion Area schemes and the preparation of revised sening plans. A knowledge of current town planning legisla-tion is desirable in all cases, and candidates for Grade III positions should possess architectural, surveying, or town planning qualifications. Applications forms may be obtained from the Architest te the Council (P). County Hall, West-minster Bridge, S.B.1 (enclosing stamped addressed foolscap envelope). Returnable not later than ten days from this date. Canvassing disqualifies. (360) <u>668</u> <u>RHODESIA EAILWAYS</u>.

Carvasing diaqualifies. (340) 568 Carvasing diaqualifies. (340) 568 RHODESIA RAILWAYS. APPOINTMENT OF ASSISTANT ARCHITECT. Applications are invited for the appointment on the permanent establishment of a Senior Assistant Architect, at a salary of 2640 p.a., rising to 21.000 p.a. in the Assistant Grade for Officers, with a cost-of-living allowance of 10 per cent, and children's allowance. Starting salary of the successful candidate will be at a figure commen-surate with his qualifications and experience. Candidates must be Associates of the B.I.B.A., and preferably with the Degree of an architec-tural school recognised by the R.I.B.A. Exper-ence in hotel design and housing would be an advantage.

tural school recognised by the R.I.B.A. Experi-ence in hotel design and housing would be an advantage. Applications, stating ago, training, experience, war service and qualifications, together with three feterences, should be sent by air mail, to reach the General Manager. Bhodesia Railways, P.O. Box 5%, Bulawayo, Southern Rhodesia, not later than 5th May, 1946. The appointment is subject to the standing regulations of the Railways, and on appointment to the permanent staff the successful applicant will be required to join the Contributory Pension Fund and the Medical Fund. Leave will be at the rate of 35 days for each year of continuous service, and an additional 30 days after every four years of continuous service. Such heave may be accumulated up to 175 days if desired, but not more than 140 days applicant will be required to undergo a strict medical examination. Three sieaunship and railway travel will be pro-vided for the successful applicant, and free rail-way travel from the port of entry to Bulawayo for bis family. 52

his family. 552 WEST SUSSEX COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited from Associates of the Royal Tratitute of British Architects for the appointment of an ASSISTANT COUNTY ARCHITECT on the permanent staff, at an inclusive salary of £710 per annum, rising by annual increments of £25 to £810 per annum. The appointment may be made at a commencing salary higher than the minimum of the scale. Applicatis must have had wide expreince of structural calculations and supervision of build-ing works.

structural calculations and supervision of build-ing works. Further particulars and forms of application 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 completed forms of application must be submitted not later than the 20th April, 1948. T. C. HAYWARD, Clerk of the County Council. County Hall, Chichester. 19th March, 1948.

BOROUGH OF HORNSEY. APPOINTMENT OF ARCHITECTURAL ASSISTANTS. Applications are invited for the following appointments, on the staff of the Borough Engineer and Surveyor. — ACHITECTURAL ASSISTANT (Permanent). Grade IV, A.P.T. Division of the National Scale, sta a salary of 240-2525 per annum (including bonus), plas London weighting allowance, at present 20. — ACHITECTURAL ASSISTANT (Temporary). Grade V, A.P.T. Division of the National Scale, to a salary of £520-£570 per annum (including bonus), plus London weighting allowance, at ponus), plus London weighting allowance, at a salary of £520-£570 per annum (including bonus), plus London weighting allowance, at anator of 2030-£435 per annum (including bonus), plus London weighting allowance, at atary of £300-£435 per annum (including bonus), plus London weighting allowance, at anator of the stational Scale, at a salary of chart and previous and the stating age, present and previous

Applications, stating age, present and previous appointments, technical training, qualifications, etc., logether with the names of three referees, must be delivered to Mr. J. H. Meivile Richards, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Hornsey Town Hall, N.8, not later than 20th April, 1948. Candidates in H.M. Forces should indicate the approximate date of their release. Canvassing, either directiv or indirectly, will disqualify.

U. BEDALE, Town Clerk.

599

Town Hall, Hornsey, N.8. 1st April, 1948.

 April, 1946.
 HARROGATE ANIT DISTRICT REGIONAL PLANNING COMMITTEE.
 APPOINTMENT OF JUNIOR PLANNING ASBIRTANT.
 Salary, 2330-215-2405 (plus war bonus, at present 269 16s.)
 Applications are invited for the above appoint-ment, in the Regional Planning Committee's Office in Harrogate, and is subject to :--(a) The provisions of the Local Government Superannuation Act, 1937.
 (b) The National Joint Council Scheme of Con-ditions of Service.
 (c) The approval of the West Riding County Council.
 It is anticipated that the person appointed will be accepted on the staff of the West Riding County Council on the "appointed day" (144) Council. It is anticipated that the person appointed will be accepted on the staff of the West Riding County Council on the "appointed day" (1st July, 1948). The appointment will be terminable by one month's notice on either side, and the successful candidate will be required to pass a medical examination.

montr's notice on either side, and the successful candidate will be required to pass a medical examination. Applicants should have had experience in a modern planning office, and have had experience in the Architectural work required in such offices. Preference will be given to members of the Town Planning Institute, although membership of other professional Institutes and/or experience in Planning Work will be taken into account. Applications, stating age, experience, qualifica-tians and details of education, together with two names of persons for reference, should be sub-mitted to the Regional Planning Officer, Market Buildings, Market Place, Harrogate, to reach him on tester than 23rd April, 1948. Candidates, when making application, must dia-close in writing whether to their knowledge they are related to any member of, or the holder of any senior office under, the Regional Planning Committee. B. R. OSTLER,

B. R. OSTLER, Acting Honorary Clerk.

Municipal Offices, Harrogate. 19th March, 1948. 598

COUNTY OF ESSEX. COUNTY ARCHITECT'S DEPARTMENT. APPOINTMENT OF ASSISTANT QUANTITY-SURVEYORS. The Essex County Council invite applications for the following appointments in the department of the County Architect, under the Chief Quantity Surveyor, at salaries within the scales appropriate to the grades indicated of the A.P.T. Division in the Scheme of Conditions of Service of the National Joint Council — (a) Sectional Assistant Quantity Surveyor. Grade III, £635-£710. Candidates should be fully qualified and ex-perienced, and be capable of taking off and billing quantities, measuring on site and adjusting varia-tions, preparing statements for the issue of interim certificates and other normal quantity In Strive the accompany councer of the scale solutions.

interim certificates and other normal quantity surveying work. In fixing the commencing salary in each case regard will be had to the experience and quali-fications of the successful candidate. Applications must be made on a form obtainable from the County Architect, Mr. H. Concolly, F.K.I.B.A., at the address stated below (please state post for which form is required), and when completed the form, accompanied by copies of not more than three recent testimonials, should be returned to reach the County Architect not later than the 29th April, 1948. The envelope must be sealed and endorsed with the name of the post for which application is made. Canvassing, either directly or indirectly, is forbidden.

JOHN R. LIGHTBURN, Clerk of the County Srd April, 1948. Council 612

ISLE OF ELY COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following

appointments :-(1) QUANTITY SURVEYOR (Grade V, A.P.T. (1) QUANTITY SURVEYOR (550) (1) GUAN Salary, £520×£15 to £570. (2) ASSISTANT QUANTITY SURVEYOR (Grade III, A.P.T. Division). Salary, £450×£15

(Grade III, A.P.T. Division). Salary, 2450×213 to 2495. (3) CLERK IN QUANTITIES SECTION (Grade General Division). Salary according to age, rising to a maximum of 2385 p.a. Mational Conditions will apply, and the appoint-ments are subject to the Local Government Officers' Superannuation Act, 1937, to a medical examination, and to one month's notice on either side. Tell particulars and copies of three recent testimonials should be sent to the County Archi-tect, County Hall, March, Camba, not later than the Start of the County Council. County Hall, March.

County Hall, March. 2nd April, 1948.

County Hall, March. 2nd April, 1948. 611 **DETROPOLITAN BOROUGH OF WOOLWICH. APPOINTMENT OF ARCHITECTURAL ASSIS TANT (GRADE YI).** Architectural Assistant, in the Borough Engineer and Surveyor's Department. The post will be in Grade VI of the A.P.T. Division of the National Scales of Salaries, viz., £615 per annum, rising to £660 per annum. The appointment will be subject to the Council's Conditions of Service in force from time to time, to the provisions af the Local Government Superannuation Act, 1957, and will be terminable by one month's notice en-either side. The selected candidate will be re-quired to pass a medical examination. Cand-dates must have passed the final examination of the R.B.A. or have as equivalent qualification, and preferably have had experience in Archi-tectural work, especially housing, undertaken by a for age qualifications and experience, should be to react the cogether with copies of not more than three testimonials, to reach the under-sing to gether with copies of not more than three testimonials, to reach the under-sing to gether with copies of not more than three testimonials, to reach the under-sing to gether with copies of not more than three testimonials, to reach the under-singend by 28th April, 1948. Candidates must disclose in writing if they are related to any member or senior officer of the Council, either directly or passing members of the Council, either directly or passing the senior officer of the Council, con-tage (1997). **DATENENTER: DATENENTER: DATENENTER:** 

Town Hall, Woolwich, S.E.18. March, 1948.

CARDIGANSHIRE JOINT PLANNING COMMITTEE. COUNTY PLANNING DEPARTMENT. pplications are invited for the follow

COUNTY PLANNING DEPARTMENT. Applications are invited for the following appointments :-(a) SENIOR PLANNING ASSISTANT. A.P.T., Grade VII. £635×£26-£710. The person appointed should have wide experience in the pre-paration of Town and Country Planning Schemes, with a sound knowledge of the relevant Acts and Orders. Applicants will be required to assist in the preparation of outline and development plans for the County, including character zoning and estate layouts for both urban and rural area. Rxperience in supervision of staff is essential, and preference will be given to applicants who are Members of the Town Planning Institute or hold an equivalent qualification in Architecture, Engineering, or Surveying. It is desirable that the successful applicant shall possess and drive a car.

Engineering, or Surveying. It is desirable size the successful applicant shall possess and drive a chr. (b) PLANNING ASSISTANT (RESEARCH) (Male or Female). A.F.T., Grade II, £420×215-2465. Applicants will be engaged on research work in connection with the preparation of the outline and development plan under the Town and Country Planning Act, 1947. Candidates should have had experience in the collection of industrial and other research data in relation to population changes, regional and economical geography, services and natural resources. Preference will be given to applicants who have a diploma in geography. economics, geology, or a similar background of research experience. (c) DRAUGHTSMAN. General Division. Salary according to age, with maximum of £356 at 32 years. Applicants should be need traughtemen and colourists, accusioned to Ordnance and other map revision.

at 2 years. Applicants should be neat drauguation and colourists, accustomed to Ordnauce and other map revision.
 (d) FILING CLERK (see not to exceed 2 years). Salary on General Division, according to age: Males at 15 years 2135, rising to 245 at 22 years. Applicants should have had experience in general office routine, keeping of records and modern methods of filing. Preference will be given to applicants with shorthand and typewriting experience.
 The appointments will be subject to the provisions of the Local Government Superanuation Act, 1937, the National Joint Council's Scheme of Conditions of Service, the passing of a satisfactory medical examination, and to one month's notice on either side.
 No forms of application are issued. Applications with the title of the appointment should records and provious appointments and experience. Coplet of two recent leatimonials should resent the undersigned not later than 19th April, 1948.

Cambrian Chambers, Aberystwyth. 24th March, 1948.

Appl ment, Grade The Local the exami

App prefer of the App Borou Smeth lestin

Sean-

(c) ONE VEYOR. Candida vious expe and must the Roya Candida prenaratio Candida preparatic of interim Accounts, amination Chartered Applica Applica appointm accompan monials, tect,"

COUN BOROU( Applicat manent al (a) ONE Salary, Gi (b) TW( Grade V (c) ONE

Quantity Torabolm tect, Cen than the

611

VACANO IN T Applica ARCH TECH Candid ossess Associat

Associat British Succes bute to vident by me promotio

Apply minster

APPOI

The (

applicat Fellows appoint Housing The p whole of tion, in and the ment o The p his wh

to pay monies appoint medical

City. The

Act, 19 Council months Form and co from m of three

to me Honsin Wedne Canv either fcation

Munici 9th CO

APPO

COUNTY BOROUGH OF DARLINGTON. BOROUGH ARCHITECT'S DEPARTMENT. Applications are invited for the following per-

ving

P.T.

TOR ION

nent lical ther cent chi

ncil. 611

t of

be

um, will vice s of

ndi-

ion, chi-

by De DOTE

der nuet 6.0.1

lar

7 07

erk.

579

ing

T., son pre-nes, and

ans and eas isl whe or ure, hat

CH)

rch the own te 1 10 107r a

ion.

22 : 10 at 198 exfer-

ion of tis-

ica ion, and

bies ent ler-

rk.

572

Salary, Grade VII (2635-2710).
 (b) TWO ASSISTANT ARCHITECTS. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT QUANTITY SUR-WYOR. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT QUANTITY SUR-WYOR. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT QUANTITY SUR-WYOR. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT QUANTITY SUR-WYOR. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT ON CONTRICT SUR-WYOR. Salary, Grade V (2520-2570).
 (c) ONE ASSISTANT ON CONTRICT SUR-Proparation of Bills of Quantities, the checking of interim valuations, and the settling up of Final ecounts, and must have obtained the final ex-mination certificate of the Royal Institute of Chartered Surveyors (Quantities Division).
 Applications, stating aze, qualifications, present ecompanied by copies of three recent testi-moniate, and endorsed 'Chief Assistant Gautity Surveyor, should be delivered to E. A. Combolm. A.E.L.B.A., M.T.P.L., Borough Archi-tek, Central Buildings, Darlington, not later was the 16th April, 1982.

H. HOPKINS, Town Clerk

LONDON COUNTY COUNCIL. VACANCIES FOR ARCHITECTURAL STAFF IN THE ARCHITECT'S DEPARTMENT. Applications are invited for the following posi-

RCHITECTS. Grade III, £550-£25-£700 a

ARCHITECTS. UTARE IA, 2000 2010 2010 par. TECHNICAL ASSISTANTS. Section (a), 2400-220-2590. Commencing rates will be according to quali-feations and experience. Candidates for Grade III positions should possess professional qualifications, equivalent to isociate Membership of the Royal Institute of British Architects.

Associate Memoership of the Koyal Institute of British Architects. Successful candidates are required to contri-bute to the Council's Superannuation and Pro-vident Fund, and will be eligible for selection by merit for permanent appointment and wrongion

promotion. Apply to the Architect (A), County Hall, West-minster Bridge, London. S.E.1, enclosing stamped addressed foolscap envelope (743). 823

CITY OF LIVERPOOL. CITY OF LIVERPOOL. PPOINTMENT OF CITY ARCHITECT AND DIRECTOR OF HOUSING. The Conneil of the City of Liverpool invite splications from qualified persons, who must be pointment of City Architect and Director of femsing, at a salary of £3,000 per annum. The person appointed will be responsible for the whole of the architectural work of the Corpora-ion, including that of the Education Athority, and the development, maintenance and manage-ment of the Corporation's Housing Estates. The person appointed will be required to devote is whole time to the duties of the office, and the appointment. He will also be required to pass a medical examination, and to reside within the City.

addical examination, and to reside within the city. The appointment will be subject to the pro-thions of the Local Government Superannuation Act, 1337, and the Standing Orders of the City Council, and will be determined by three calendar menths' notice on either side. Form of applications and particulars of duties and conditions of appointment may be obtained from me, and applications, accompanied by copies of three recent testimonials, must be addressed by me (endorsed "City Architect and Director of Boxing"), and be received on or before Wednesday, the 12th May, 1948. Canvassing of members of the City Council. fation. THOMAS ALKER

THOMAS ALKER, Town Clerk. Wanicipal Buildings, Dale Street, Liverpool, 2. Wh April, 1948.

 ma April, 1948.
 623

 COUNTY BOROUGH OF SMETHWICK.
 BOROUGH DE SMETHWICK.

 DEDARTMENT.
 DEPARTMENT.

 POINTMENT OF SENIOR ARCHITEC-TURAL ASSISTANT.
 Molecular

 Applications are invited for the above appoint.
 Active of the senior of the

## E. L. TWYCROSS, Town Clerk.

571

Suncil House, Smethwick. March, 1948.

<page-header><text><text><text><text><text><text><text><text><text><text><text>

## Town Hall, Hackney, E.8. 3rd April, 1948.

614

IONDON COUNTY COUNCIL. HOUSING AND VALUATION DEPARTMENT. ARCHITECTURAL ASSISTANTS. Applica-tions are invited for positions of Architectural Assistant, at salaries of up to 2580 a year. Com-mencing salaries 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-annuation contributions at the rate of 6 per cent. of salary.

annuation contributions at the rate of 6 per cent. of salary. Successful candidates will be required to under-take the design, layout, and preparation of work-ing drawings for housing schemes (cottages and multi-storcy 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.1 (stamped addressed foolscap envelope required). Canvassing dia-qualifies. (870)

WARWICKSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited to fill the following vacancies on the County Planning Staff:-(a) THREE PLANNING ASSISTANTS. A.P.T., Cardo IV. (4990 fcsc page approx).

May, 1946. L. EDGAR STEPHENS, C.B.E. Clerk of the County Cou uncil.

658

## Shire Hall, Warwick. 22nd March, 1948.

THE GLASGOW SCHOOL OF ARCHI-TECTURES. Applications are invited for the post of SENIOR LECTURESHIP IN ARCHITECTURE. Applications are invited for the post of SENIOR LECTURER in the Department of Architecture in the Royal Technical College. Glasgow. Salary, £675-£25-£875. Position on the scale according to qualifications and experience. Further particulars and forms of application may be obtained from the Secretary of the College. 566 may be College.

xlvii

BOROUGH OF RADCLIFFE. BACUPANT MALL PARTMENT. APPOINTMENT OF ARCHITECT. Applications are invited for the above-mentioned between the appointment, in the office of the Borough Engineer and Surveyor, at a salary in accordance with Grade IV (A.P.T. Division) of the Consolidated National Scale of Salaries, i.e., teas, rising to £525 per annu. The person appointed will be responsible to the Borough Engineer for the preparation of plans, and general Municipal work in the Borough, and such as a second subject to the pro-fusions of the Local Government Superannuation act, 1937, and the successful applicant will be curred to pass a medical examination. The person appointed with a subject to the position. Applications, stating age, qualifications and ex-there receive testing age, qualifications and ex-there exceed the the and endorsed "Chief the A. FOX. Towasing will disqualify. B. A. FOX. Towasing Miching Lans. Marken Mall, Radcliffe, Lans. Station 1990. 2000. 2010.

622

Town Hall, Radcliffe, Lancs. 5th April, 1948.

540 April, 1948. 662 BOROUGH OF DOUGLAS. ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of Architectural Assistant, in the Borough Engineer and Surveyor's office, at a salary of 2475 per annum, plus cost-of-living bonus, at present £50 per annum.

annum, plus cost-of-living bonus, at present £50 per annum. Applicants must be Associates of the R.I.B.A., and experienced in the preparation of working drawings, specifications and quantities for public buildings, housing schemes, and other Municipal buildings.

buildings, housing schemes, and other Municipal buildings. The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Council's Superannuation Scheme, which does not provide for receipt or payment of any transfer value on entering or leaving the Council's service. The successful candidate will be required to pass a medical examination. and to contribute towards the Superannuation Fund. Applications, endorsed "Architectural Assis-tant," giving particulars of age, qualifications and experience, together with copies of not more than three recent testimonials, should be addressed to the undersigned, not later than Friday. 30th April. 1946. Canvassing, either directly or indirectly, will be deemed to be a dismulification. PERCY M. SHIMMIN. Town Clerk.

## Town Clerk.

Canvassing, either directly or indirectly, will be deemed to be a disonailfaction. PERCY M. SHIMMIN. Town Clerk. Town Hall, Douglas, Isle of Man. 6th April. 1948. Applications from qualified candidates are invited for the following post:-QUANTITY SURVEYOR required by Federa-tion of Malaya. Public Works Department, for three years, with possibility of permanency. Commencing salary according to experience in scale \$4,800 to \$9,600 a year, plus cost-of-living allowance up to \$1,920 a year. Children's allow-ance \$50 a month for first child and \$35 for second. (Malayan dollar equals 2s. 4d.) Outfit allowance \$60. Free passages. Candidates, age 25-30. should be Chartered Quantity Surveyors, and have had two years' experience, after pupilage, in all aspects of the work. Apply at once by letter. tating age, whether married or single, and full particulars of qualifications and experience, after M/N/B275/3D on both letter and envelope. 624 WORCESTERSHIRE COWNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the following appointments:-(a) SENIOR PLANNING ASSISTANTS (TWO). A.P.T. Grade VI. The persons appointed will be engaged on the preparation of development jans, with particular reference to the areas of the county allotted to them. and must be comporent to advise on the control of development in those areas. Applications mate by Corporate Members of the control of development will be engaged on the preparation of development in those areas. Applications mate by corporate Members of the control of development will be ensaged and wantage. (b) PLANNING ASSISTANT (ONE). A.P.T. Grade IV. The person appointed will be considered and advantage. (b) PLANNING ASSISTANT (ONE). A.P.T. Grade IV. The person appointed will be considered and advantage. Applications by examination will be considered and advantage. Bach appointment is superannuation Act. of the Local Government Superannuation Act. of the Local Government Superannuation Act. of the Local Bovernme

an advantage an advantage Each appointment is subject to the provisions of the Local Government Superannuation Act. 1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T. Grade VI, is £595 to £660, and in Grade IV. £480 to £525. Applications must be made on forms to be obtained from the County Planning Officer. County Buildings, Worcester, and returned to him not later than 28th April. W.R. SCURFIELD. Clerk of the County Council. Shirehall, Worcester. (Q235)

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE. COUNTY PLANNING DEPARTMENT. Applications are invited for the following per-manent appointments to the staff of the County Planning Department :--(a) AREA PLANNING OFFICER. At a salary within the range of 2700×250-21,000 per annum. (b) CHIEF PLANNING ASSISTANT. Salary scale, 2635×225-2700 per annum. (c) CHIEF PLANNING ASSISTANT (RE-SEARCH). Salary scale, 2625×225-2700 per annum.

(d) SENIOR PLANNING ASSISTANTS. Salary

SEARCH). Salary scale, £255×£25-£700 per annum.
(d) SENIOR PLANNING ASSISTANTS. Salary scale, £35×£25-£650 per annum.
(e) JUNIOR PLANNING ASSISTANTS. Salary scale, £35×£25-£455 per annum.
(e) JUNIOR PLANNING ASSISTANTS. Salary scale, £30×£15-405 per annum.
A cost-of-living bonus, it present at the rate of £59 16s. per annum, will be payable in addition to the above-mentioned salaries.
The successful candidate for appointment (a) will be required to take charge of an Area Planning Office and to be responsible for the carrying out of such duties as may be assigned to him. Applicants should be Corporate Members of the Town Planning Institute, and in addition should possess qualification in Civil Engineering, Surveying or Architecture, and have had considerable planning and administrative experience in a position involving the control of staff.
Appointment (b) is on the Headquarters staff at wakefield, and the successful candidate will be responsible for the responsible for the responsible of current planning practice and legislation. They should also be corporate Members of the Town Plasming Institute or possess a coognized qualification in Civil Engineering, Surveying or Architecture.
Appointment (c) is also on the Headquarters staff at Wakefield, and the successful candidate will be responsible for the research work required in connection with the preparation of the Development Plan. Applicants should have had a mineral resources, and preference will be given to applicants chould have had canter as industry.

in demomics, geography, geology, or allied subjects. Buccessful applicants for appointments (d) and (e) will be assigned for duties at one of the Area Planning Offices, to be set up in the towns of Skipton, Harrogate, Huddersfield, Pontefract, Barnsley and Doncaster, and applicants may indicate a preference for any of these places. Applicants for appointments (d) should be Cor-porate Members of the Town Planning Institute or possess a recognized qualification in Civil Engineering, Surveying or Architecture, and have had considerable experience in a planning office. Applicants for appointments (e) should have passed the Intermediate examination of one of the recognized Professional Institutions, and have had training and experience in Engineering, Sur-veying or Architecture. Preference will be given to applicants with a knowledge of town and country planning. All the above appointments will be subject to the provisions of the Local Government Super-annuation Act, 1937, and successful applicants will be required to pass a medical examination Applications, stating age, qualifications and ex-perience, and accompanied by copies of two recent testimonials, should be received by the under-signed not later than the 30th day of April, 1948. ARTHUR BATES,

signed 1948.

633

631

ARTHUR BATES, County Planning Officer. County Planning Office, 19, King Street. April 1946 April, 1948.

 April, 1948.
 633

 CITY OF ROCHESTER.
 ARCHITECTURAL ASSISTANT.

 Applications are invited for the above appointment in the City Surveyor's Department, at a salary in accordance with Grade II (Administrative, Professional, and Technical Division), of the National Scale of Salaries, ris... \$420 per annum, rising by annual increments of £15 to £465 per annum.

 Candidates must have passed the examination for Associate of the Royal Institute of British Architects, or hold an equivalent qualification.

 A good general experience is required, particularly in the preparation of drawings and specifications for Municipal housing schemes.

 The appointment will be subject to : 

 (1) The scheme of conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

 (2) The Local Government Superameution Architects

ministrative, Foresentian, Annual Services. (2) The Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, stating age, qualifications and ex-persence, accompanied by copies of three recent testimonials. must be delivered to Lt.-Col. W. Law, M.I.C.E., City Surveyor, King Edward Road, Rochester, not later than 26th April, 1948. Canvassing, directly or indirectly, will be deemed a disqualification. JOHN L. PERCIVAL, Town Clerk.

Guildhall, Rochester. 6th April, 1948.

British Gas Council have vacancy for JUNIOR DRAUGHTSMAN. Experienced in Exhibition Drawing and Detail. Apply in writing, glving particulars of experience and salary required, to The Secretary, British Gas Council, Gas Industry House, I, Grovenor Place, London, S.W.1. 622

<text><text><text><text><text><text><text><text>

Town Hall, Hackney, E.8. 3rd April, 1948.

COUNTY BOROUGH OF EAST HAM. BOROUGH ENGINEER'S DEPARTMENT. Applications are invited for the under-mentioned appointments ... SENIOR ENGINEERING ASSISTANT (GENERAL). Grade A.P.T., VI. Salary, £555-6520. SENIOR ENGINEERING ASSISTANT (STRUCTURAL). Grade A.P.T., VI. Salary.

 SENIOR
 ENGINEERING
 ASSISTANT

 (STRUCTURAL).
 Grade A.P.T., VI.
 Salary,

 255-5620.
 SENIOR
 ARCHITECTURAL
 ASSISTANT.

 Grade A.P.T., VI.
 Salary, 255-5620.
 ARCHITECTURAL
 ASSISTANT.

 Grade A.P.T., VI.
 Salary, 255-5620.
 ARCHITECTURAL
 ASSISTANT.
 Grade

 A.P.T., VI.
 Salary, 240-2455.
 Grade
 A.P.T., III.
 Salary, 255-5670.

 The above salaries are inclusive of the London allowance.
 Code-O-living bonns, al present 259 los, per annum for men over 21, will be paid in addition.
 Salaries in excess of the minima of the grades may be paid according to the ounling accound is not provided, but it is anticipated will not be affected by the proceed reductions in capital expenditure.

 Muse and varied programme of interesting works, which it is anticipated will not be affected by the proceed reductions in capital expenditure.

 Muse accound thave in course of proparation a large and varied programme of interesting works, which it is anticipated will not be affected by the proceed reductions in capital expenditure.

 Muse accound the accound action is not provided, but the Council will be prepared to consider applications of appointment and form of applications of appointere and form of apo

Town Hall, East Ham, E.6. April, 1948.

<text><text><text><text><text><text>

CITY AND COUNTY OF BRISTOL. CITY ARCHITECT'S DEPARTMENT. Applications invited for following permanent staff appointments: — SENIOR ASSISTANT ARCHITECTS. Grade V (£520-£570 p.a.). Applicants must held AR.I.B.A. qualifications. Applications, giving experience, age, qualifica-tions, etc., to be delivered to the undersigned put April, 1948. J. NELSON MEREDITH, F.R.I.B.A. City Architect. Eagle House, Colston Avenue, Bristol, 1. METROPOLITAN BOROUGH OF POPLAR

Eagle Honse, Colston Avenue, Bristol, 1. 60 METROPOLITAN BOROUGH OF POPLAE. APPOINTMENT OF JUNIOR ARCHITEC. TURAL ASSISTANT (MISC. I). Applications are invited from suitably qualified persons for the above-mentioned appointment on the permanent establishment of the Borough Engineer and Surveyor's Department. Full details of the appointment and form of application may be obtained from the Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3, to whom completed applications musi be delivered not later than first post on Monday. 26th April, 1948. CROWN AGENTS FOR THE COLONIES

Road, R.S., to wholl complete applications mini-be delivered not later than first post on Monday. 26th April, 1948.
 CROW A AGENTS FOR THE COLONIES. Applications from qualified candidates are invited for the following.post :- BUILDING SURVEYOR required by the Hong Kong Government, Public Works Department, for invited for the following.post :- BUILDING SURVEYOR required by the Hong Kong Government, Public Works Department, for specific anoth, including expatriation pay. In addition a cost-of-living allowance of up to see a month including expatriation pay. In addition a cost-of-living allowance of up to see a month is payable. The Government rate di exchange is at present 16 dollars to the £ sterling, but is liable to alteration. Free passages. Candidates, not over 40 years of age, must be Chartered Surveyors, preferably in both the Building and Quantities Sections, and have had at least fiv-oration over 40 years of age, must be Chartered Surveyors, preferably in both the Building ra-inforced concrete framed structures. Apply a once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper. to the Crown Agents for the Colonies, 4. Millbant, Defoorder OF MALDEN AND COOMBE SENTRA ARCHITECTURAL ASSISTANT. Applications are invited for the appointment of a Saning Architectural Assistant, on the per-entent, at a solary in Grade A.P.T., V (520-576, plus London weighting, at present £20 per amon.

Dus London weighting, at present 2.20 pm annum). Commencing salary may be above the minimum of the scale, according to qualifications and en-

of the scale, according to quantizations and the perience. The appointment is terminable by one month'n notice in writing on either side, and will be subject to the provisions of the Local Gover-ment Superannuation Act, 1937, and the successful candidate will be required to pass a medical er-

candidate will be required to pass a medical er-amination. Applicants should be Associate Members of the Royal Institute of British Architects, and applica-tions, giving age, qualifications and details of training, experience, present and previous appoint-ments with salaries, accompanied by copies of two recent testimonials, should be addressed to the undersigned and be delivered not later than Monday, 3rd May, 1948. Canvassing, directly or indirectly, will be a dis-qualification.

qualification. Candidates, when making application, must disclose in writing whether to their knowledge they are related to any member of or the holder of any office under the Council. HAROLD. E. BARRETT. Tagen Clerk

Municipal Offices, New Malden, Surrey. 60 HEMEL, HEMPOTETE

 Municipal Offices, New Malden, Surrey:
 66

 HEMEL HEMPSTEAD DEVELOPMENT CORPORATION.
 61

 CHIEF ARCHITECT'S DEPARTMENT.
 Applications are invited for the appointment of a SENIOR ASSISTANT (PLANNING), in the Chief Architect's Department, at a commencing salary, according to experience, within the range 2650 to 2750 per annum.

 Applicatis
 should have had sound Town Planning experience and hold the Town Planning Diploma. It is also desirable that applicants should have the R.I.B.A. qualification of at least associateship.

 The person appointed will be required to work at the Development Corpora-tion's staff rules and to the Development Corpora-tion's staff rules and conditions of service. Con-tributory superannuation (with the choice of entering or continuing in a fund under the Local Government Superannuation Act, 1937) will be provided.

provided. Applications in writing, giving particulars of age, qualifications, experience and present appointment, together with the names of three persons to whom reference can be made, should be endorsed "Planning Assistant," and addressed to reach the undersigned not later than 1st May. 1948.

1948. W. O. HART. General Manager. Westbrook Hay, Hemel Hempstead, Herts.

COUNT BORO

Applic a Gen the in the salary Nationa mencing mum of Applic technica to cand examina Architer The

The month's to the p annuati medical Applic perience testimo endorse Friday, Canva deemed disclose disclose they ar of, any dates v

> TOWD HAS/I CO

if appointe.

Appli appoin (a) ( Grade Associa genera bonsin

ousin and so some (b) A V, £52 the R tectura tractor (c) J Grade

B.I.B. Appl Borou M.I.C. with o monia

All Schem Govern exami Can

disqua any 1 any s Dat

14, N

CR App invite QU ment two Salar; ing t rising Free Quan ence once

exper Crow letter

App appoi viz. : (a) Grad 10 £ (0) Grad E405 Plu sentl Suc medi miss An expetesti

lign Con anent Grade

mina side, lificaed by

itect.

AR. EC-

lified nt on rough

m of rough Bow musi nday 613 28. 878 Hong t, for Com-and

and ng to In \$425

te of rling, andi-tered

and five mila 8 fo iy ed

bank. both

£570

pe

mum d exonth's ll be essful al ex-

f the

plica-ils of pointes of ed to than

a dis-

must

ledge

Clerk. T

P.

ment n the ncing

ang Town cants least

work lemel The

otice pora-Cone of Local 1 be

rs of esent three

May ager.

640 nt of per

COUNTY BOROUGH OF GREAT YARMOUTH. BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF GENERAL ARCHITEC-TURAL ASSISTAT. Applications are invited for the appointment of a General Architectural Assistant (permanent), in the Borough Engineer's Department, at a salary in accordance with Grade III of the Vational Scale of Conditions of Service, com-mencing at 2450 per annum, rising to a maxi-ment of 2455 per annum. Applicants should have had a thorough bechnical training, and proference will be given to camidates who have passed the Intermediate exmination of the Royal Institute of British The compilement will be terminable by

in candidates who have passed the Intermediate camination of the Royal Institute of British Architects. The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Super-annation Act, 1937, and to the passing of a medical examination. Applications, stating age, qualifications and ex-perience, together will copies of three recent testimonials, should be enclosed in an envelope endorsed "General Architectural Assistant," and must reach the undersigned not later than Priday, 30th April, 1948. Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in writing whether to their knowledge they are related to any member of, or the holder of, any senior office under the Council. Candi-dates who fail to do so will be disqualified, and, if appointed will be liable to dismissal without motice. EARRA CONWAY

FARRA CONWAY, Town Clerk.

Town Hall. Great Yarmouth. 18th April, 1948. HAS/IPB.

and cheet farmonta.
 and cheet farmonta.
 and construct and the second second

Grade I passed R.I.B.A.

E.I.B.A. Applications, on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Herliby, B.Sc., W.I.C.E., Howard Street, North Shields, together with copies of not more than three recent testi-monials, should be addressed to the Borough Sur-veyor, to arrive not later than 1st May, 1948. All appointments are subject to the National Scheme of Conditions of Service. the Local Government Superannuation Act, 1937, a medical examination, and one month's notice on either side.

ide. Canvassing, either directly or indirectly, will digualify, and applicants must state whether or not to their knowledge they are related to any member of the Council or to a holder of any senior office under the Council. Dated this 9th day of April, 1948. FRED. C. BENER, Toron Clerk. 14, Northumberland Square, North Shields. 653

COUNTY COUNCIL OF RENFREW. Applications are invited for the undernoted appointments, in the Education Department.

County Buildings, Paisley.

BOROUGH OF EALING. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the following per-manent appointments:-(a) ENGINEERING ASSISTANT, at an appro-priate salary, within Grades III to V of the scales of the National Scheme of Conditions of Service (£450 per annum to £570 per annum), plus £20 London weighting. Applicants must be Associate Members of the Institution of Civil Engineers.

Engineers analyor the Institutions, at an Engineers. (b) ARCHITECTURAL ASSISTANT, at an appropriate salary, within Grades III to V of the consolidated scales of the National Scheme of Conditions of Service (2450 per annum to £570 per annum), plus £20 London weighting. Appli-cants must have passed the Intermediate ex-amination of the Royal Institute of British Architects.

 Amination of the Royal Institute of Sitter Architects.
 (c) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade V of the scales of the National Scheme of Conditions of Service, commencing at £250 per annum, rising to £570 per annum, plus £20 London weighting. Appli-cants must be Associate Members of the Royal Institute of British Architects, preferably with Municipal experience.

 Forms of application, together with Condi-tions of Appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than 9.30 a.m. on the 26th April, 1948.

 E. J. COPE-BROWN, Town Hall, Ealing, W.5.
 Town Clerk. 656

E. J. COFF.BROWN. E. J. COFF.BROWN. Town Clerk. Town Clerk. 565 ADMINISTRATIVE COUNTY OF LONDON. APPOINTMENT OF DEPUTY ARCHITECT TO THE LONDON COUNTY COUNCIL. The London County Council invites applica-tions for the appointment of DEPUTY ARCHI-TECT to the Council. Salary, E2.000 by 2520 biennially to 22.500; there are no age limits for candidates. The person appointed will be subject to the Council. Salary, E2.000 by 2520 biennially to 22.500; there are no age limits for candidates. The person appointed will be subject to the Council. Salary, E2.000 by 2520 biennially to 22.500; there are no age limits for candidates. The person appointed will be subject to the Council. Salary, E2.000 by 2520 biennially to 22.500; there are no age limits for candidates. The person appointed will be subject to the Council. Superannuation and Provident Rund Scheme. The Architect of Metropolitan Buildings is responsible for the crections, and for general advice on Town Planning; including the preparation of the Development Plan for the Councy of London. Forms of appli-cation (siamped addressed foolscap envelope necessary) obtainable from the Clerk of the Council (G). The County Hall. Westminster Bridge, London. S.E.I. Application forms re-turnable by 18th June, 1948. Canvassing dis-qualifies. (880) 641

turnable of refn June, 1948. Calvassing dis-dualifies. (880) 641 ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW. The Governors invite applications from suit-ably qualified persons for the full-line per-manent post of STUDIO MASTER AND LECTURER in Architectural Design, in the De-partment of Architectura and Building of the College, as from 1st September, 1948. Ability to take classes in Colour and Technique of Presentation generally will be an advantage. Salary according to the Burnham Scale, with London allowance and increments for approved industrial or professional experience. Applications (no forms), giving full particulars of training, qualifications, and experience, should be submitted to the Clerk to the Governors at the College, within two weeks of the appearance of this advertisement. B. E. LAWRENCE. Chief Education Officer. Connty Offices. Cheinstord. BOROUGH OF SURBITON.

Grade A.P.T., II (240-215-2485 per annum). Applications are invited for this permanent post. Conditions of appointment and forms of applica-tion may be obtained from the undersigned, to whom applications should be delivered by 30th April, 1948. R. H. WRIGHT, Town Clerk.

644 Council Offices, Surbiton. 644 STEVENAGE DEVELOPMENT CORPORA-TION invites applications for a post as ARCHI-TECT, to be engaged on the maintenance and adaptation of buildings. Salary, £600 to £750 Per annum, inclusive. Any candidate related to either a member of the Corporation or an employee must disclose the fact when making application. Applications, stating age, experience and quali-fications, to be sent to The General Manager, Stevenage Development Corporation, Aston House, near Stevenage, Herts., before 1st May, 1948. 646 Council Offices, Surbiton.

1948. 646 QUANTITY SURVEYORS, qualified, are urgently required by several Government De-partments for non-established posts. at salaries ranging from 2400 p.a. upwards, according to qualifications and experience. Applications from unqualified men will be considered providing they have had at least 5 years' practical experience of quantity surveying. Apply, quoting 2,0.8., Ministry of Labour and National Service, Technical and Scientific Register, Room 377, York House, Kingsway, London, W.C.2. 555

~ •

COUNTY BOROUGH OF TYNEMOUTH. BOROUGH SURVEYOR'S DEPARTMENT. STAFF VACANCIES. Applications are invited for the following appointments:— (a) CHIEF PLANNING ASSISTANT, Grade Will, £635-£710. Applicants must be Associate Members of the Town Planning Institute, should possess in addition a recognized Engineering or Architectural qualification, and should have had some administrative experience. The successful applicant will be in charge of the Planning Sec-tion of the Department under the direction of the Borough Surveyor. (a) SENIOR PLANNING ASSISTANT. Grade (b) SENIOR PLANNING ASSISTANT. Grade (c) SESIOR PLANNING ASSISTANT. Grade

Government Superannuation Act, 1291, a Inclust examination, and one month's notice on either side.
 Canvassing, either directly or indirectly, will disqualify, and applicants must state whether or not to their knowledge they are related to any member of the Conneil or to a holder of any senior office under the Council.
 Dated this 9th day of April. 1948, FRED. G. EGNER, Town Clerk.
 Northumberland Square, North Shields. 652

## Architectural Appointments Vacant

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

THE Plastics Division of Imperial Chemical Industries. Ltd., require urgently a SENIOR ARCHITECTURAL ASSISTANT, for their Head-quarters at Wolwyn Garden City; some industrial experience essential. Write to Staff Manager. Plastics Division, I.C.I., Ltd., Black Fan Road, Welwyn Garden City, Herts, quoting AJ/15. 574

A SSISTANT required in Private Practice; good experience in cost of works house rebuild-ing general war damage, specifications, working drawings, and supervision of work is essential. Apply Clark 44, Great Russell Street, W.C.1. 'Phone: MUS. 4400 & 0500. 564

KEEN JUNIOR ASSISTANT required for must be capable of doing working drawings from Architect's rough sketches, surveying and level-ling; must be neat and accurate. Reply, stating age, experience, and salary required, to Box 575.

A SSISTANT required; capable draughtsman, working drawings, details, specifications, schedules and surveys. Apply Clark, 44, Great Russell Street, W.C.1. 'Phone : MUS. 4400 & 0600.

A RCHITECT'S ASSISTANT required in the Architectural Department of a London Brewery Co.; experience in the design of licensed premises preferred, also with experience in dilapidations, war damage repairs, etc.; appli-cants should state age, salary required, and give full particulars of their qualifications. Box 638.

COMPETENT Qualified ARCHITECTURAL ASSISTANT required to work under Chief Assistant in extensive Norfolk practice; must be car driver and single for preference; also JUNIOR ASSISTANTS; salaries according to ability. Apply Box 608.

T. P. BENNETT & SON have vacancies for ARCHITECTURAL ASSISTANTS, at 43, Bloomsbury Square. W.C.1; salaries, £400-£500, dependent on experience and ability. 628

LONDON ARCHITECT is opening a drawing office in Ashford area; applications are invited for posts of SENIOR and JUNIOR DRAUGHTSMEN; good pay; reasonable con-ditions; interesting work. Box 627.

EXPERIENCED ASSISTANT required by City Architect. Apply by letter, in own hand-writing, stating full details of experience, age, and salary required, to Box 605.

JUNIOR ASSISTANT (Inter. R.I.B.A. standard), working drawings, surveys, and specifications; salary according to experience. Watson & Johnson, 5, Victoria Square, Birming-ham, 2. 606

**EXPERIENCED** SUBVEYORS required by Birmingham Brewery, for maintenance ot, and alterations to, Licensed Premises. Apply, stating age, experience, and salary required, Box 619.

A BCHITECTURAL ASSISTANT (JUNIOR) required by Birmingham Brewery; must be a good draughtsman, capable of setting out working drawings from sketch plans. Apply, stating age, experience, and salary required, Box 618.

A BCHITECTURAL ASSISTANT required immediately in London office; must be good draughtsman, of Intermediate standard; some experience of industrial buildings an advantage. Box 621.

Hox 621. A RCHITECTURAL ASSISTANT, fully experienced, required argently by private practising Architects, for Industriai, Farm Buildings, University and Housing work, etc.; sulary kode 6572 p.a., with prospects of permanency. Brief particulars to rick, sverard, Acay & Gimson, Architects, 6, milistone Lane, Leicester. 647

WEST BIDING (Yorks) Architects require competent ASSISTANT for industrial work; capable of preparing working drawings, details, site surveys and quantities; state satury required. Box 648.

A PPLICATIONS are invited for the following permanent appointments in a Sheffield Architect's office, Senior Quantity Surveyor. Salary £650-£750, according to capabilities. Must be fully experienced in all branches. Senior Architectural Assistant. Salary £650-750 according to capabile of taking charge of drawing office staff. Two Architectural Assistants. Salary £400. Applicants should state age and give full details of experience and qualifications. Box 660.

SENIOR ARCHITECTURAL ASSISTANT required in busy office in South Wales on important Industriai work. Opportunity of good experience. Apply giving particulars of experience, salary required, etc., to Box 665.

HOLLOWAY BROTHERS (London) Limited require a SENIOR ARCHITECTURAL DRAUGHTSMAN. Age preferably 3640. Apply, stating experience and salary required, to the Secretary, 157. Millbank, S.W.1. 663

WANTED URGENTLY by Architect in private practice in Nairobi, SENIOR ASSISTANT. A.R.I.B.A. essential and some experience in carrying out reinforced concrete buildings desirable. Unmarried preferred. Apply Waterhouse & Ripley, Staple Inn Buildings, High Holborn, W.C.1, stating salary required.

A RCHITECT'S ASSISTANT required in Midlands Office. Must be quick and accurate draughtaman with experience in Industrial Buildings. Reply with full particulars, salary required, etc., to Box 661.

A RCHITECT wanted, Assistant, or partnerhip considered, old-established firm. Lancashire-Cheahire border. Age not over 40. Apply Box 668.

## Architectural Appointments Wanted

A RCHITECTURAL ASSISTANT (26) requires appointment; experienced in all types of work: aketches, working drawings, details and specifications; supervision of contracts and staff; salary by arrangement. Box 61.

A RCHITECTURAL ASSISTANT, aged 23, A.R.I.B.A., A.A. dip., with two years' office experience, seeks position in progressive London office. Write Box 66.

A RCHITECT (36), fully qualified for 12 years, and resident abroad for many years, has had very varied experience in architects' office; work required as draughtsman or assistant; salary, 27 per week. Box 67.

QUALIFIED School-trained ASSSISTANT (25) requires post in progressive London firm next May; 14 months' office experience. Box 66.

A RCHITECTURAL ASSISTANT (30) requires position, with good prospects and scope for advancement; experience of domestic and industrial work; salary, £450-£550. Box 70.

A SSISTANT (Female), Intermediate R.I.B.A. standard, desires part-time work in Bucks and Herts area. Box 69.

**P**ROBATIONER, R.I.B.A., requires position with Architect; 12 months' experience in engineering and architecture, as draughtewoman, sceretary, typing, shorthand; Westminster district preferred. Box 73.

A RCHITECTURAL ASSISTANT (32), good allround experience, requires post in East or S.E. Kent; salary, £500; would consider other districts if housing available. Box 72. A BCHITECTURAL ASSISTANT (30), graduated at Liverpool, varied experience, requires a job immediately. Box 71.

WOMAN ARCHITECT, A.B.I.B.A., A.A. Dipl. (Hons.), free June and July, wants temporary post in North of England. Box 74.

## **Other Appointments Vacant**

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

DRAUGHTSMAN with Architectural training for Exhibition Designing and Detailing. David Esdaile & Co. Ltd., 30, Stannary Street, Kennington, S.E.I. REL 1666. 1096

MANAGER for Joinery Works, South London; excellent opportunity for man with experience, character, a good record, and ability to accept responsibility for a busy works producing wide range of joinery; must be energetic, keen, and resourceful; replies treated with strict confidence; state salary required, present position. age, and previous positions. Box 583.

RicHARD COSTAIN, LTD., require the services of Civil Engineers, Agents, Sub-Agents, Quantity Surveyors, and Senior Engineers Junior Engineers with two or three years' postdegree experience are also required. Vacancies for all the above appointments exist at home and abroad. Apply by letter to Personnel Manager, Richard Costain, Ltd., Dolphin Square, London, S.W.1. 636

## Services Offered

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

**CENTLEMAN**, with extensive experience in personal connection with Architects, Surveyors and Local Authorities, seeks appointment with progressive company desiring experienced representation. Box 54.

SOUTHERN RHODESIA.—Advertiser (36), 18 years' architectural and building experience (pre-war architect, wartime Major R.E., post-war Builder's Manager), seeks worthwhile job in constructional field or materials production line; specialised knowledge pretabricated buildings; living London. Box 549.

A RCHITECT, Home Counties, requires position in busy Firm, view to Partnership, and combining own practice; London or near preferred. Box 581.

S TRUCTURAL ENGINEERS will prepare complete Reinforced Concrete or Steelwork Details from architect's drawings; all types of structures. Box 607.



A RCHITECTURAL STUDENT, aged 20, with Architecture as hobby, requires Juaior. Learner position in London Architect's office, with small increment.-Box 629.

A BCHITECTURAL ASSISTANT requires parttime work; neat, experienced draughtsman; quick service; plans, working drawings, tracing, linen nega; own facilities. 19, Salehurst Close, Kenton, Harrow.

WASH-LINE Perspective Drawings in Colour and "B. and W."; free lance specialist seeks new clients; only good class work required; free; measured and aerial drawings; reasonable fees; estimate submitted promptly upon receipt of working drawings. Box 604.

HIGHLY Qualified Land and Building Site services next 4 months only; setting-out speciality fully equipped; nationally mobile. Box 610.

**PART-TIME** Assistance given to Members of the Profession in London, Surrey, Sussex or Kent, by ex-Government Engineer and Surveyor; specializing in Land and Building Surveys; Dangerous and Defective Structures; Reinforced Concrete Design; own instruments and chainman. Box 616.

A BTICLED, qualified, very experienced, QUANTITY SURVEYOR, 3 years in present job, seeks change; town or country (week preferred); highest references; salary, £552 per annum, paid monthly. Box 650.

GIRL (23), desiring change, seeks position (essential work) as TRACER, with some shorthand, typing, or general office work; anywhere south. Box 649.

DUPLICATING.—Specifications. Bills of duplicated; moderate charges; qualified. Miss Stone, 6, Duke Street, S.W.I. Whitehall 962. 60

TYPING.—Specifications, Bills of Quantities, etc., accurately and speedily copied. Apply S., 233, Goldhurst Terrace, N.W.6 (MAL 9579),

**R**<sup>ELIABLE</sup> SECRETARY SHORTHAND. TYPIST, just past Direction age, seeks reengagement with Architect where living accommodation provided. Would housekeep for employer. Please write Box 666.

## For Sale

### 4 lines or under. 5s.; each additional line, 1s. td.

CREOSOTE, 40 galls., 70s. delivered in free drum; Refined Tar (needs heating), 75s.; Barn Tar (can be painted on cold), 80s. Frank Coopers, Canterbury. 56

ALDEN Duplex Radial Electric. 40 in. by 27 in., Copying Frame, type B.2004; voltage 100-250, complete with fittings, switchboard, resistance, and spare lowering gear. Apply The Croft Granite, Brick & Concrete Co., Ltd.. Croft. near Leicester.

WELL-ESTABLISHED Architect's Country Practice, 15 miles North of London, for Sale, no competition; good and well equipped offices at reasonable rent; wife is obliged to sell this successful practice solely owing to illness of principal. Box 609.

## Miscellaneous

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

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of fencing, guard rail, fastory partitions and gates. Harvest Works, 99-107, St. Pauls Road, N.I. Canonbury 3061.

NEWER HEAT DISPLAY, Building Centre. Conduit Street, W.I. New solid-fuel appliances. New heating methods. New standard of home comfort. Open 10-5. Organised by the Coal Utilisation Joint Council. 730

SOUTH AFRICA.—The Builder's paradise, liner and rail, £100; no waiting. Write 0.P.S.A. Club, Veryan, Cornwall, stating desired date. 1000

**CENTRAL HRATING OIL BURNERS**-Insist on the British-made Parwingc-be stoking, clean, trouble free; no waiting for coal or coke deliveries; no embargo now. Write at once to Parker, Wride & Achurch, Lid., Makers. 80, Broad Street, Birmingham. 1.

**DHRSPECTIVES**, Wash Drawings, Lettering.-For every kind of activity demanding the expert use of pencil, pen and brank. B. Laverty, 44. Aldorshot Road, Guildford, Surrey. ISOME Write Sons,

A RCH or profestance in Shorthan Cash au comed.

LIGH trict. £

# SOU by

is offe greate follow Archite

Archite Building Building Interi

Buildin Quanti

Civil En

of the l 1.Struc (Exa

Write in any IN

CORR Dept. KING

R

Pr

.

W

(of

14,

H

SA N

F G I



with

with

Dart

cings, Close, 630

lolon

ialis nable

Site

lomic alist;

rs of ex of

eyor

veys; orced

man

Dced.

(west

ition

any

of

02 Miss 651

itie

pply 9579). 639

ND

s re-

em

. 6đ.

free 758.;

rank 546

by

tage

re

roft 620

ntry

10

pped

0

- ----

. 6d

pply

orks,

ntre

ap date the 73

lise. rite ired

8.

coal

e al

g.

B

## Alphabetical Index to Advertisers

	PAGE		PAGE		
Accrington Brick & Tile Co., Ltd		Expandite, Ltd.		Metropolitan-Vickers Electric Co., Ltd.	1.5
Adams, Robert (Victor), Ltd.		Finch, B., & Co., Ltd		Midland Electric Manufacturing Co., Ltd.	
Anderson Construction Co., Ltd		Foyles	11	M.K. Electric, Ltd.	
Arens Controls, Ltd.	xxviii	French, Thomas, & Sons, Ltd.		Milla Cooffeld Co. I td	1
Ascot Gas Water Heaters, Ltd			xviii	Mills Scaffold Co., Ltd.	
Ascot thas water meaters, Ltd		Fullwood & Bland, R. J., Ltd.	íi	Midland Woodworking Co., Ltd	
Ashley Accessories, Ltd.	11	General Cable Manufacturing Co., Ltd		Moler Products, Ltd.	-
Associated British Oil Engines Co., Ltd.		Gillett & Johnston, Ltd	xlii	Morris, M. A., Ltd.	-
Austin Hall Group of Companies, The	XV	Greenwood's & Airvac Ventilating Co		Morris Singer Co.	-
Automatic Telephone & Electric Co., Ltd.		Ltd.	11	Neuchatel Asphalte Co., Ltd.	-
Banister, Walton & Co., Ltd.	xxii	Gray, J. W., & Sons, Ltd.	44	Newman, William, & Sons, Ltd.	
B.B. Chemical Co. Ltd., The				Oak Warson Co. 14d	
	XXXXX	Griffiths Bros. & Co., Ltd.	xì	Oak Veneer Co., Ltd.	
		Hamilton Photo Print Service, Ltd		Oliver, Wm., & Sons, Ltd.	
Bassett-Lowke, Ltd.	xlii	Hammill Brick Co., Ltd., The	li	Paragon Glazing Co., Ltd.	
Bayliss Kenton Installations, Ltd		Hammond & Champness, Ltd		Philips Electrical, Ltd.	x
Belling & Co., Ltd.	xxxix	Harvey, G. A., & Co. (London), Ltd		Pritchett & Gold & E.P.S. Co., Ltd.	-
Bigwood, Joshua, & Son, Ltd	vi	Heal's Contracts, Ltd	lii	Prodorite, Ltd	1.2.3
Birmabright, Ltd.		Henderson Safety Tank Co., Ltd	1	Pyrotenax, Ltd.	1.0
Blackburn, Thomas, & Sons, Ltd	-	Hickson's Impregantion Co.		Randall Page Studios	
Booth, James, & Co., Ltd.		Trillion T M7		Randall Fage Studios	
		Hillier, L. W.	11	Reynolds Tube Co., Ltd	X
Booth, John, & Sons (Bolton), Ltd		Higgs & Hill, Ltd.	Constant of Constant of Constant	Rippers, Ltd.	
Boulton & Paul, Ltd.	XXXII	Hincks, H. L.	li	Ruberoid Co., Ltd.	-
Bowaters Building Boards, Ltd	XXXVIII	Hope, Henry, & Sons, Ltd.		Rubery Owen & Co., Ltd.	
Braby, Fredk., & Co., Ltd.		Horseley Bridge & Thomas Piggott, Ltd.	XX	Santon, Ltd.	-
Braithwaite & Co., Engineers, Ltd	li	Imhof, Alfred, Ltd.	AA	Scaffolding (Great Britain), Ltd.	
Bratt Colbran, Ltd		Imperial Chemical Industries		Sealocrete Products, Ltd.	-
Briggs, William & Sons, Ltd	xliv	Industrial Engineering, Ltd.	xxvi	Sealocrete Frougets, Ltd.	
		Industrial Engineering, Ltd.		Secomastic, Ltd.	
British Gas Council		Insulite Products Corporation, Ltd	NAME AND POST OFFICE ADDRESS OF	Service Electric Co., Ltd.	
British Industries Fair	where we wanted	International Correspondence Schools,		Shaffer, James, Ltd	-
British Insulated Callender's Cables, Ltd.	Management and Provide American	Ltd	11	Shannon, Ltd., The	
British Ironfounders' Association		Invisible Panel Warming	xxix	Sharman, R. W., Ltd.	
British Plimber, Ltd.	xli	Jenkins, Robert, & Co., Ltd.	xliv	Sharp Bros. & Knight, Ltd	
British Thomson-Houston Co., Ltd., The		Johnson & Phillips, Ltd.		Shires & Co.	-
Britmac Electrical Co., Ltd.	xi	Kingfisher, Ltd.		Smith & Pearson, Ltd.	
Brown, Donald (Brownall), Ltd.	Îi	King, George W., Ltd.	mandi	Smiths' Fireproof Floors, Ltd.	-
Camelon Iron Co., Ltd.		King, George W., Litt.	xxvii		XX
		Kwikform, Ltd.	xvii	Somerfeld, Ltd., K. J. & A.	
Carter & Co., Ltd.	xiv	Lacrinoid Products, Ltd.		Sundeala Board Co., Ltd.	
Clark & Eaton, Ltd., James		Laing, John, & Son, Ltd		Sutcliffe, Speakman & Co., Ltd	-
Claygate Fireplaces, Ltd.	xii	Lead Industries Development Council	xxiv	Tarmac, Ltd.	
Colt, W. H. (London), Ltd.		Leatherflor, Ltd.		Tentest Fibre Board Co., Ltd.	
Copper Development Association		Legrand, Sutcliffe & Gell, Ltd		Thorp, John B.	
Crittall Manufacturing Co., Ltd.	ix	Lightfoot Refrigeration Co., Ltd., The	xliv	Tilvard Tiles, Ltd.	
De La Rue Insulation, Ltd.	XXX	Limmer & Trinidad Lake Aspahlte Co.,	AIIV		
Doulton & Co., Ltd.	xiii		- 22	Tretol, Ltd.	
	XIII	Ltd.	xli	Troughton & Y9ung (Lighting), Ltd	
Dunlop Rubber Co., Ltd.	second se	Lysaght, John, Ltd.	Contract Stationers Property lies	Tungam Sales Co., Ltd.	
Educational Supply Association, Ltd		Mallinson, William, & Sons, Ltd	XXXV	Turners Asbestos Cement Co., Ltd.	
Efril Sales Organisation		Marley Tile Co., Ltd.	xxiii	Universal Asbestos Mfrg. Co., Ltd	
Electrolux, Ltd.	XXV	Matthews & Yates, Ltd.		Val de Travers Asphalte Paving Co., Ltd.	
Ellis School of Building	li	Mavitta Drafting Machines, Ltd.		Walker, Crosweller & Co., Ltd.	
Ellison, George, Ltd.	11	McCarthy, M., & Sons, Ltd.	11	Wardle Engineering Co., Ltd., The	XX
Etchells, Congdon & Muir, Ltd.	**	Metallic Seamless Tube Co., Ltd.	11		-
				Watts & Corry, Ltd.	
Expanded Metal Co., Ltd.	xix	Metal Sections, Ltd.		Zinc Alloy Rust Proofing Co., Ltd	

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property, Land and Sales, see pages xivi, xivii, xivii, xix, I and II.



The Reception Room at the Travel Association — 66 Whitcomb Street, W.C.2. The waxed oak bookcase and tables were specially designed by Heal's, who also provided the cork flooring, radiator cases, curtains and lighting.

# Furniture for Special Needs

CERVI

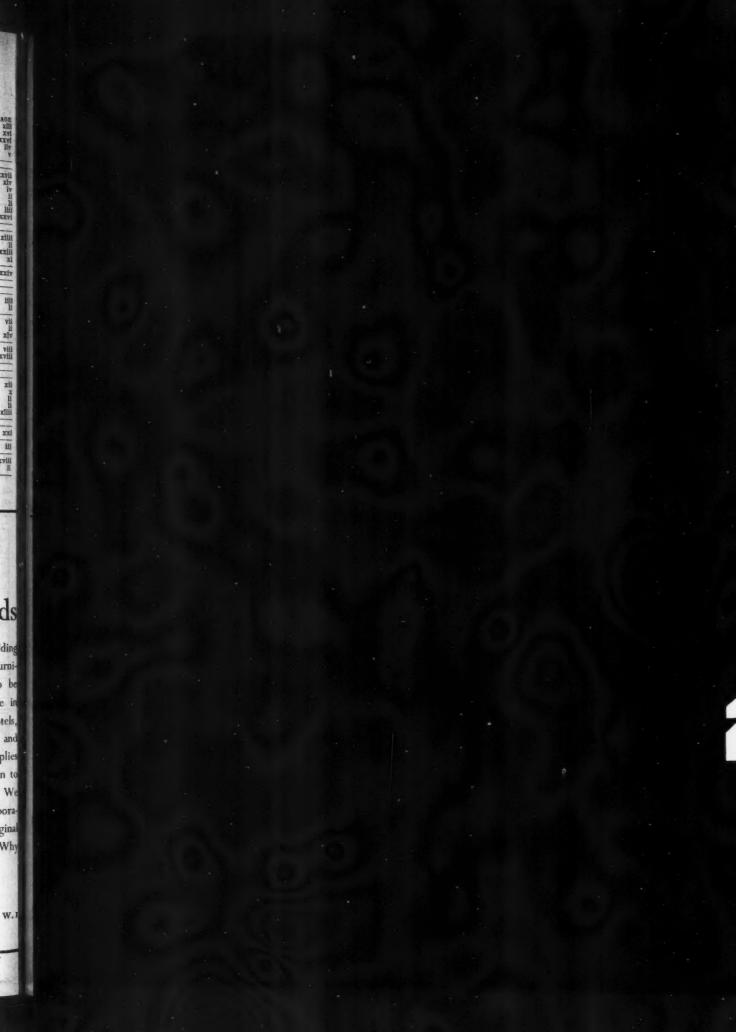
X

xli

XX

Whether you are building, re-building or converting existing buildings, furniture and furnishings are sure to be needed. At Heal's we specialize in the furnishing of institutions, hotels, restaurants, schools and colleges, and even in these days of short supplies and restrictions we are in a position to help you to solve your problems. We are always pleased to work in collaboration with architects or to create original schemes in our design office. Why not consult us?

HEAL'S CONTRACTS LTD 196 TOTTENHAM COURT RD., LONDON, W.I





Maximum strength, minimum obscuration of light, extreme durability and attractive neatness of design are four outstanding characteristics of "Paragon" Lantern Lights and Skylights, whether of standard pattern (24 sizes), or purpose-made to suit any curb-trimming. They are manufactured outright by us at our Deptford Works from materials of pre-war quality. All opening sashes are double-weathered and hung on brass cup-pivots. The steel glazing bars are, of course, of the well-known "Paragon" type and standard, being of completely lead-clothed steel.

Our Brochure "A" will be sent you on request.

PARAGON GLAZING C. L<sup>T.D</sup> I. · VICTORIA ST. · WESTMINSTER · S.W.I Telephone : ABBey 2348. Pte. Br. Exch. Telegrams · "Eclairage, Sowest." London

# SECOMASTIC saves vital man-hours and cuts labour costs

A RIBBON of Secomastic run along a joint or crack is all that is required to ensure a permanent

weatherproof seal. SECOMASTIC IS COMPLETELY WEATHER RESISTANT AND REMAINS PLASTIC AND RESILIENT UNDER A PROTECTIVE SKIN THAT CAN BE DECORATED

Secomastic takes up any movement in a joint due to expansion or shrinkage, warping or buckling, vibration or structural settlement. It is ideal for bedding and sealing

wood and metal window frames, external door frames, bedding sills, sealing pre-cast concrete blocks, roof and gutter repairs, and for sealing expansion joints.

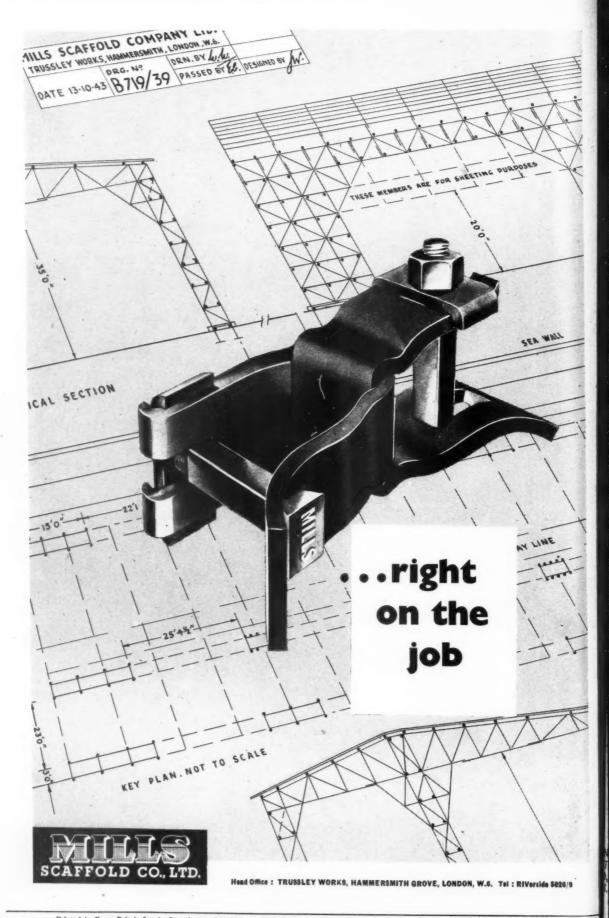
SECOMASTIC LIMITED 25 Upper Brook Street, Park Lane, London, W.1. Tel: MAYfair 9080



The Seco hand caulking gun can be worked with ease, speed and precision; it reduces wastage and labour costs to a minimum; it forces the Secomastic into the joint, ensuring uniform and deep penetration.

Write for a demonstration to :

Sales Dept. SECOMASTIC LTD., 25, Upper Brook St., London, W.1.



Printed in Great Britain for the Proprietors of "THE ARCHITECTS' JOURNAL" (The Architectural Press, Ltd.), 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. by HARRISON & SONS, LTD., Printers to His Majesty The King, London, Hayes (Midda.) and High Wycombe.

