

CELT Canadian Cedar Wood (CEDAR WOOD TILES)

Canadian SHINGLES

CEDAR WOOD TILES

ALL PURPOSE,
PERMANENTLY
DURABLE
TROUBLE-FREE
ROOFING





- Fire retardant.
- Gale proof. • Permanent
- and Rot proof.

 Vermin proof.
- •Beauty in colour and appearance.
- Perfect insulation.
- One tenth the weight of tiles. Saves 40% roof timber.



CLUB HOUSES



PETROL STATIONS

I' Cedar equals 11 in. concrete in resistance to heat or cold. Economical in cost and fixing. Long trouble-free life. We quote for supply and fixing if required.

Colt Shingles are now being specified more widely than ever for their beauty, long life, high insulation value and weatherproof qualities.

Copies of our Shingle Handbook containing 110 photographs and full technical information on request.

selves during the war to be superior to other roof covering in their remarkable resistance to blast, more than justifying our claims for the permanent security of a Colt Shingled roof. Our Technical Department is at the service of all Architects.

Colt Shingles proved them-

W·H·COLT (LONDON) LTD

SURBITON . SURREY

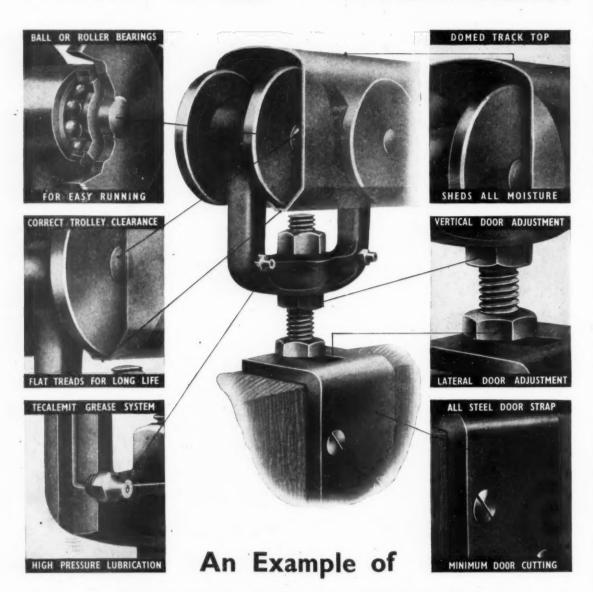
Telephone: ELMBRIDGE 6511 (4 lines)

COLT SHINGLES ARE SELECTED FROM NO. I GRADE XXXXX SHINGLES



AGRICULTURAL BUILDINGS

KING SLIDING DOOR GEAR



ENGINEERING PERFECTION

King Door Gear stands foremost amongst all makes in possessing the above features incorporated in the one product. For many years King's have specialised in conveying; moving things smoothly and efficiently; moving huge loads of 25 tons by overhead crane to a few pounds by door gear. The highly specialised knowledge gained from this experience enables King's to produce sliding door gear as near perfection as it is possible to make it. Within King's large organisation a special department is constantly working to secure even the smallest improvement in King's products. This research results in up-to-the-minute efficiency and reliability, in short—perfect design. This fact, combined with its keen competitive price, merits King Door Gear as a first consideration. The name King creates confidence. Stockists throughout the country have standard lines ready for immediate delivery. Write for illustrated booklet and price list.

GEO. W. KING LTD. HITCHIN HERTS

PHONE: HITCHIN 960

IN MORE & MORE RENDEZVOUS OF RELAXATION



the LIGHT entertainment is carried universally via



pioneers of the

CONDUIT TUBE

That so many of the lights, which go with the laughter, in the entertainment World are safely conducted by METALLIC is a fitting compliment to their consistent accuracy and quality.



METALLIC SEAMLESS TUBE CO. LTD.

Ludgate Hill, Birmingham. Phone: CEN. 7167. Grams: "Flask", Birmingham. Sales Depots: London: 88 Goswell Rd., E.C.1. Newcastle-on-Tyne: St. John Street. Leeds: 5 York Place. Swansea: 1 Grove Place. Glasgow: 137a St. Vincent Street

NEW SCAFFOLD JACK SPEEDS BUILDING

OFFICIAL BUILDING RESEARCH STATION REPORT on an



invention which will save the building industry hours of unproductive labour.

A new and ingenious Jack for lifting a complete scaffold platform, with workmen, bricks, and mortar to the most comfortable and efficient working height, and using your present including silos, chimneys, etc. large B.S.S. Scaffold tubes and (see illustration below). Full fittings. platforms with increased request. Available to trade on material, erection and dismantling costs. Easy to lift

or lower, absolutely safe in operation, and saves time and physical effort by bricklayers, plasterers, and other skilled Ideal for all building, Eliminates multiple B.R.S. report supplied free on completion of current Ministry of Works contracts.

One platform always at the right height









Climbing SCAFFOLD JACK

Sole manufacturers and Patentees

JOSEPH ADBURY & SONS BRAINTREE · ESSEX

GYPKLITHAPPLICATIONS

ilding

bour.

safe in

me and

klayers,

ouilding,

eys, etc.

free on

rade on

Ministry

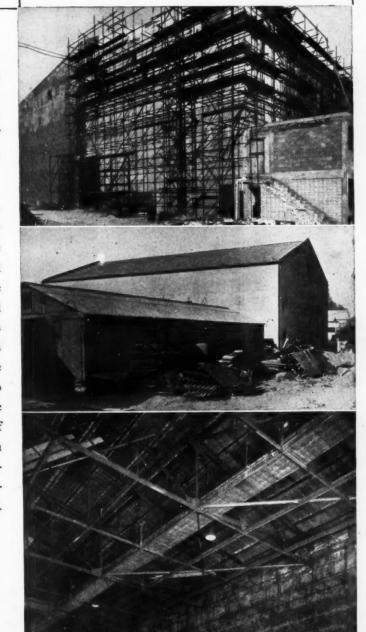
eight

skilled

Repairs to Sound City Film Studios Architects for repairs: Montagu Evans & Son

Past experience of the satisfactory results obtained in the original construction by the use of wood wool slabs for acoustic and sound insulation determined the use of Gypklith for the repairs to these film studios illustrated.

The top and bottom photographs show an exterior and interior view of Studio No. 3 for the walls of which Gypklith was used on timber framing with air space each side between steelframed reinforced concrete exterior walls and an absorbent asbestos material on wire mesh. The middle photograph is of Studio No. 2. In both buildings the roofs consist of two layers of 2-inch Gypklith supported on steel purlins, finished with roofing felt and asphalt, and lined underneath with slag wool quilting.





GYPROC PRODUCTS LIMITED

Head Office: Westfield, Upper Singlewell Road, Gravesend, Kent. Tel: Gravesend 4251-4. 'Grams: Gyproc, Gravesend Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.I. Telephóne: Govan 614. Telegrams: Gyproc, Glasgow London Office: 21 St. James's Square, London, S.W.I. Telephone: 8021

Makers also of Gyproc Plaster Board, Gypstele Partitions and Ceilings, Plasstele and Acoustele Ceilings





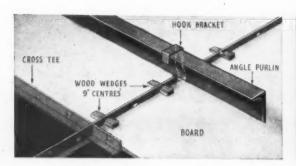
C. F. ANDERSON & SON LTD — WALLBOARD DISTRIBUTORS

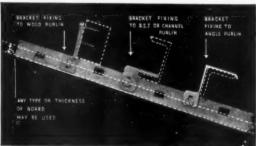
HEAD OFFICE
HARRIS WHARF
GRAHAM STREET
LONDON, N.I
TEL: CLERKENWELL 4582

SCOTTISH OFFICE
NATIONAL BANK BUILDINGS
2 ST. MIRREN STREET
PAISLEY
TEL PAISLEY 4992

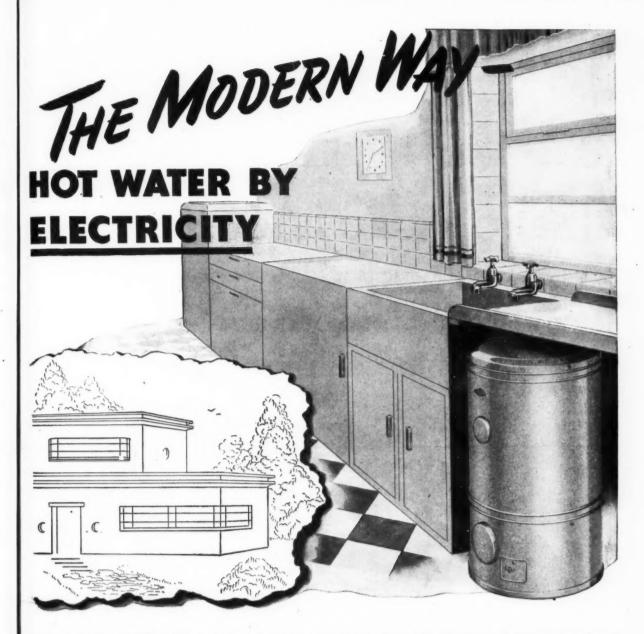


FOR APPLYING ANY TYPE OF BOARD TO CEILINGS & WALLS





TAS/ANS



The Sadia Type U.D.B. Water Heater provides a complete electric hot water service from one simple factory-made unit. This unit stands on the floor under the draining board in the kitchen, or in any other convenient place. Plumbing consists of one pipe from the cold water tank to the "INLET" union; another from the "Outlet" union to the hot water taps; and thirdly a vent or expansion pipe. Wiring consists of one 15 amp. sub-circuit direct from the fuse or distribution board. The skilful design of this simple, factory-built unit has reduced on-site labour to a minimum. Everyone interested in modern building should know more about this new 20 gallon Sadia water heater. For further details of the U.D.B., write to:-

AIDAS ELECTRIC LIMITED, Sadia Works, Rowdell Road, Northolt, Middlesex. Manufacturers of Sadia Electric Water Heaters.

TYPE U.D.B AUTOMATIC ELECTRIC WATER HEATER



BROMSGROVE GUILD LD

ARCHITECTURAL METALWORKERS

BROMSGROVE

WORCESTERSHIRE

FACTS ABOUT

FOR MORTAR

"... Water penetration to the inner face of the wall may result from using a jointing mortar which is too dense or too porous for the type of walling unit employed."

POST-WAR BUILDING STUDIES, No. 1.

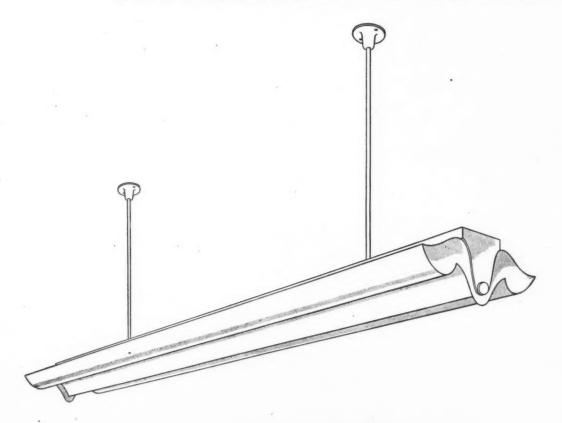
The addition of LIME to cement, sand, mixes in the proportions recommended by the HOUSING MANUAL reduces drying shrinkage and therefore a more intimate bond between mortar and walling units is provided, which increases the weather resistance of the masonry.

THE SOUTHERN LIME ASSOCIATION

HANOVER HOUSE, 73-78, HIGH HOLBORN, LONDON, W.C.1.

GOOD DESIGN COMES TO

FLUORESCENT LIGHTING



IN THE NEW

TUBALUX

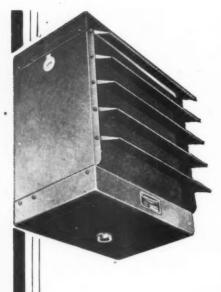
FITTINGS

Fluorescent lighting has developed beyond its first, purely functional form. In the TUBALUX series of fittings is a range of shapes intended, in their own field, to serve a purpose parallel with that of our well known ULTRALUX series. TUBALUX fittings are simple in line, clean and practical in use. We have also designed and installed special fluorescent lighting schemes in factories, offices and schools, as well as more decorative fittings for restaurants, cinemas and other public buildings. On an such schemes, our design staff—guided by A. B. Read, R.D.I., Director of Design—are prepared to collaborate with architects and consulting engineers.

TROUGHTON & YOUNG (LIGHTING) LTD

The Lighting Centre
143 Knightsbridge · London · S.W.1

Telephone: Kensington 7457 (10 lines)



The COPPERAD UNIT HEATER is an essential piece of equipment for factories, stores and the Heating and Ventilating of all large buildings.

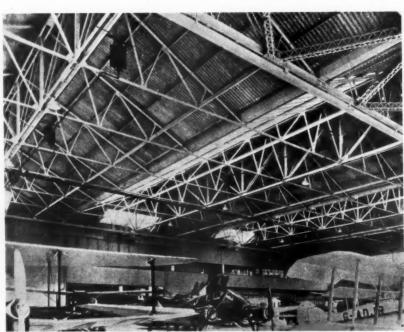
It is unique in design and may be installed most economically in any particular space.

The Copperad Unit Heater occupies no floor space and provides Combined Heat and Ventilation. Automatic temperature control can easily be incorporated for adjustment to suit the weather accordingly. Made of the finest materials combined with expert workmanship and further to its advantage it is designed to be compact and have an attractive appearance.



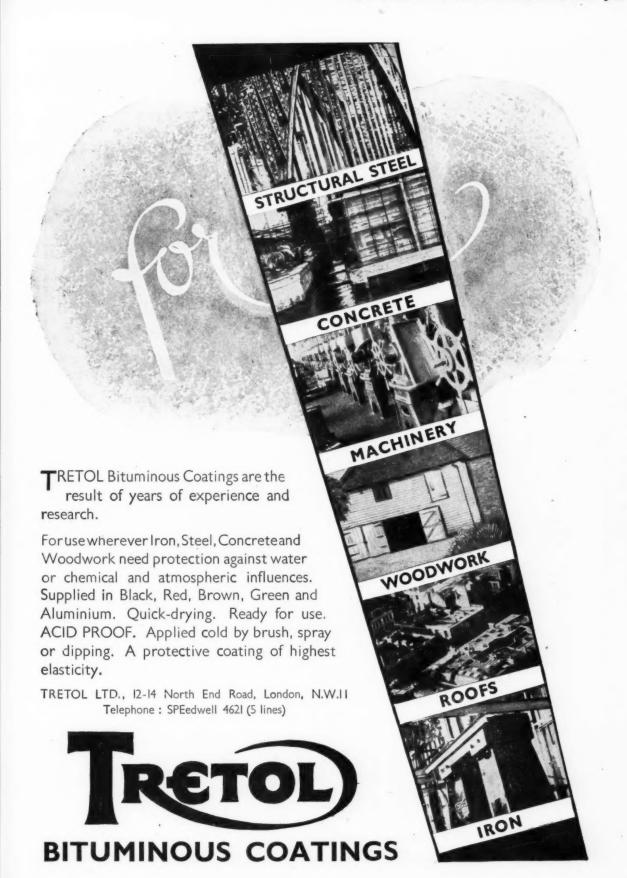


The photograph shows installation at Airwork Limited, Heston Airport.



For further details of the Copperad Unit Heaters please write to:

BRITISH UNIT HEATER CO. PROPRIETORS: THE Phone: EUSton 5671 (4 lines). Wires: COPPERADIA, NORWEST, LONDON.



tial the

ost

sily the ials

her

gg E

À

...

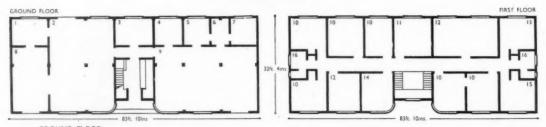
•

)



LABORATORY AND OFFICES BUILT OF

SECO



- GROUND FLOOR

- GROUND FLOOR I. Workshop.
 2. Heavy Test Room.
 3. Test Room.
 4. Laboratory Office.
 5. Balance Room.
 6. Furnace Room.
 7. Solvents.
 8. Heavy Store.
 9, General Laboratory,
- FIRST FLOOR
- 10. Offices.
 11. Conference Room.
 12. Drawing Office.
 13. Dark Room.
 14. Library.
 15. Sample Room.
 16. Lavatories.

Two-story buildings of any size are easily erected because Seco is a system of permanent building which has been thought out logically and perfected by an immense amount of experience in the past six years.

* Essential building of laboratories, offices, schools, clinics, hospitals, halls, factories, industrial canteens, and churches can now be undertaken.

Seco and Uni-Seco are the Registered Trade-Marks of

UNI-SECO LIMIT

25 UPPER BROOK STREET, LONDON, W.1

Telephone Mayfair 9080

The perfect concrete-curing blanket

The advantage of Sisalkraft on a concrete curing job is the certainty that it will keep stipulated moisture in the mix and unwanted moisture and contamination out. When a newly laid bay of concrete is covered with Sisalkraft, the surface moisture condenses, little globules of moisture cling to the under-side of the blankets, being returned to the mix in the form of "sweat" to maintain a state of humidity. The result is even hydration throughout the slab, a dense, hard set, and a surface resistant to abrasion; with no material other than Sisalkraft can you be so sure of ultimate perfection in concrete curing. Sisalkraft is stronger than required by any standard specification (proved by official tests). It is easily transportable from

site to site, and can be used over and over again. Sisalkraft is being extensively and consistently used by Government Departments, Municipal Authorities, and Public Works Contractors; you cannot do better than to follow their example. Order now for prompt delivery. Write to-day for technical details.





GRAND HOTEL, BRIGHTON
... equipped with
A.T.M. Sound Distribution and
Amplifying Equipment



Utilised for Government purposes during the war, the Grand Hotel, Brighton, re-opens its doors to its normal peace-time clientele who find the previously existing amenities extended to include an A.T.M. Sound Distribution System for paging and staff locating and the relaying of speeches, original and recorded music, radio broadcast programmes, etc. The facilities provided are radio, with a choice of up to six pre-set programmes, gramophone, playing eight twelve-inch or ten-inch mixed records and three independent microphone circuits electrically interlocked according to priority.

A.T.M. Sound Distribution Systems are available on rental terms including full periodic maintenance. No capital outlay is involved. Write or phone the nearest branch for all details,

AUTOMATIC TELEPHONE & ELECTRIC CO. LTD.

MELBOURNE HOUSE, ALDWYCH, LONDON, W.C.2

TEMple Bair 4506

Main Branches: Glasgow, Manchester, Birmingham, Leeds, Sheffield & Bristol

STROWGER WORKS



LIVERPOOL,









- AII073-AVI



'BULLDOG'

ARE SIMPLE TO

I While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.

2 The members are lifted apart and the toothed connectors are placed between the adjacent faces of the members to be connected.

3 The members are then drawn together by means of the bolt until the projecting teeth of the metal plates are completely embedded in each contacting timber surface.

The 'Bulldog' timber connector consists of a metal plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of the plate.

In use, these connectors are embedded firmly between the lapped members, thus greatly increasing the small bearing area provided by a bolt alone, and enabling the stresses to be distributed over practically the entire cross section of the Timbers involved.

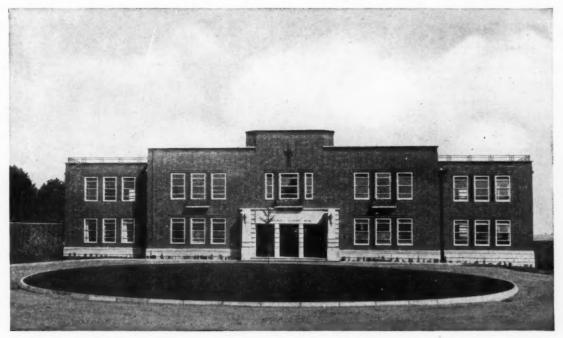
'Bulldog' connectors put timber construction on a sound engineering basis and the consequent increase in efficiency results in an amazing saving of timber, time and material.

Full details and technical advice are available to everyone interested.



'Buildog' Timber connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.

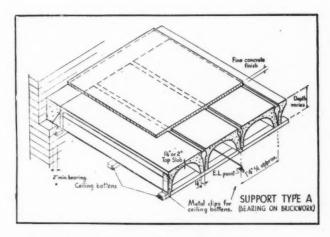
W. F. HOLLWAY & BROTHER, LIMITED,



THE BARRATT MATERNITY HOME, NORTHAMPTON.

SIR JOHN BROWN, AND A. E. HENSON, FF.R.I.B.A., ARCHITECTS.

TRUSCON PRECAST FLOORS WERE USED FOR THIS BUILDING



No matter what type of structural framework is used the Truscon Precast Floor can be adapted practically and efficiently. The light weight of the units will also effect reduced costs in the supporting framework. In the "suspended ceiling" type as illustrated, any desired ceiling finish may be used, and special ceiling clips are provided.

- SAVING OF SITE LABOUR
- SAVING OF TIMBER
- SPEED OF ERECTION
- PROVISION OF WORKING
 PLATFORM FOR FOLLOWING TRADES



TRUSCON FLOORS

6, COLLINGHAM GARDENS, EARLS COURT, LONDON, S.W.5

Telephone: FRObisher 8141

PROBLEM

To provide comfortable warmth evenly distributed throughout the drawing office, so that no one should be overheated, and no one should suffer from cold feet; to eliminate convection currents and dust; to leave the floor space unobstructed.



Office in Martin's Bank Building, Liverpool. Architect: H. J. Rowse.



RICHARD

ANSWER

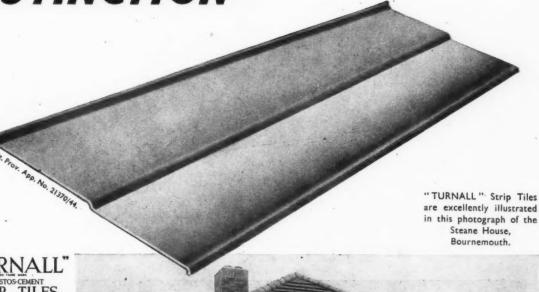
Dulrae Low Temperature Electric Warming installed by Richard Crittall. This system can be applied to individual rooms, or to complete buildings. It employs the principle, now recognised as most conducive to comfort, health and economy, of distributing radiant warmth from the ceiling under thermostatic control at approximately body heat. The drawing office is part of a suite designed by the Architect for his own use in the bank building. The suite is heated by Dulrae throughout. Other Richard Crittall installations in this building include Panel Warming, Inlet and Extract Ventilation, Hot Water Service, Fire Protection and Boiler Plant.

RICHARD COMPANY LIMITED

- don: 156 Great Portland Street, W.1.
- Birmingham: Prudential Buildings, St. Philip's Place.

- Liverpool: Martin's Bank Building, Water Street.
- Phone: Central 2478 Potterles: Jubilee Chambers, Stafford St., Hanley. Phone: Stoke-on-Trent 29385

ECONOMY WITH DISTINCTION



"TURNALL" STRIP TILES

CONSIDER THESE FACTS:-

Overall Length 6 ft. 0 in. Overall Width 2 ft. 0 in. Weight per square 552 lbs.

FIXED DIRECT TO WIDELY SPACED RAFTERS

NO BATTENS OR BOARDING REQUIRED

HERE AT LAST IS THE ROOFING TILE WHICH EMBODIES SPEED AND ECONOMY IN APPLI-CATION WITH DISTINC-TION IN DESIGN.

WRITE, FOR DESCRIPTIVE LEAFLET SECTION 4/C.





TURNERS ASBESTOS CEMENT CO. LTD.

TRAFFORD PARK

MANCHESTER

VINCULUM

LICENSEES FOR

THE WEST MID-

LAND ATSOUTH

EASTERN AREAS.

CHAID ONS

ARMAC LTD. VINCULUM DERT. ETTINGSHALL WOLVERHAMPTON.



STRUCTURAL STEELWORK

Take advantage of experience when planning for the future.

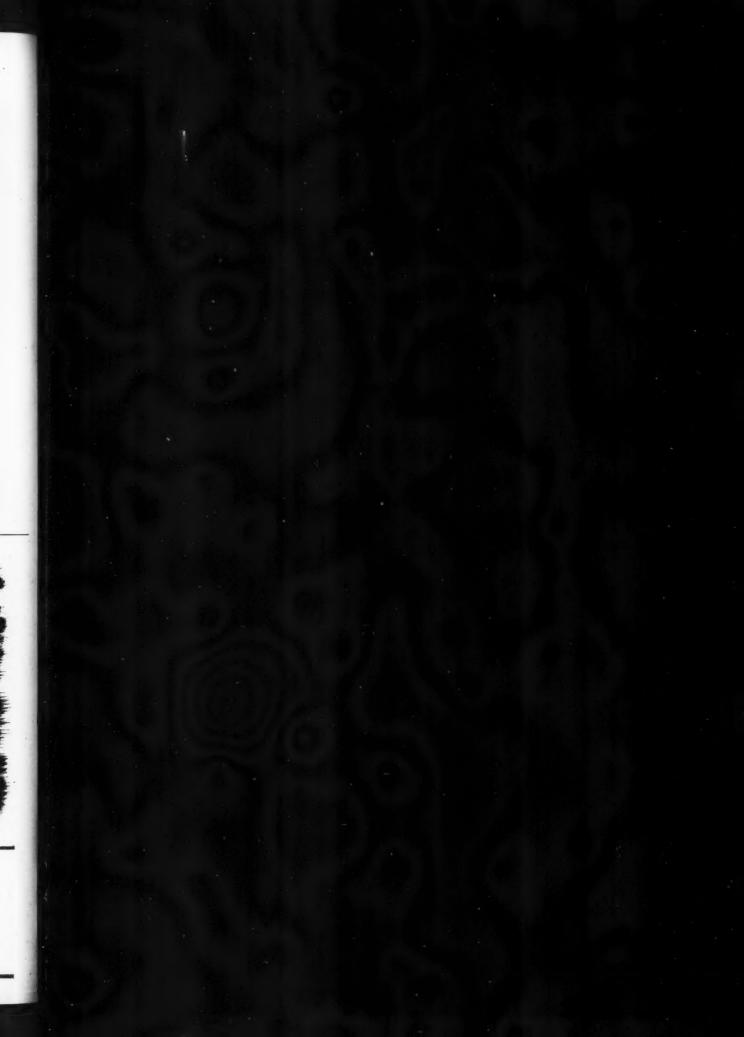
Our specialists are at your service.

Also Specialists in RAILINGS GATES METAL WINDOWS WELDED VESSELS RAINWATER GOODS

THOMAS BLACKBURN & SONS LTD

INCORPORATING: RUSSELL EDWARDS & CO. AND STEVENSONS

PRESTON-LANCS





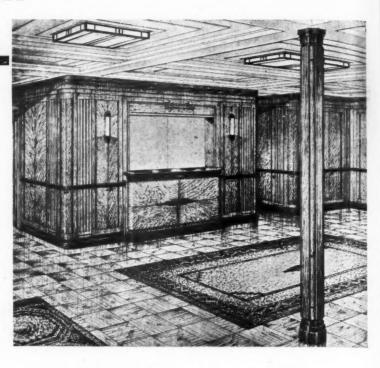


"Birmabright" — the brand of aluminium used in this Northumbrian residence — is particularly resistant to atmospheric influences. The work was executed by Messrs. W. Aynesley & Sons Ltd. Architects: Archibald & Archibald, F.F.R.I.B.A. Write for illustrated leaflet to

TYLER'S LTD.

F STROUD

FOR ARCHITECTURAL
DECORATION IN WOOD
AND METAL



Head Office and Works: London Road, STROUD.

London Office: 49 Tottenham St., W.I

CRANHAM—A The tides, ebbing and till time is a

CRANHAM-A NEW WORD FOR ENDURANCE

The tides, ebbing and flowing since time began... and till time is no more...symbol of the eternal. Cranham Blocks, because of their superb construction, symbols of endurance too. Built to last... yes... consider their qualities...lightness combined with great mechanical strength, fire and damp resistance, heat and sound insulation, and a perfect key for plastering... qualities essential to all those reconstruction jobs which must stand the test of time. Write to-day for full technical details.



CRANHAM BLOCKS

J. H. SANKEY & SON LTD.

22 ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

Telephone: HOLborn 6949 (14 lines)

Telegrams: Brickwork, Estrand, London



... The Walpamur range of Quality Paints includes

W.I

WALPAMUR Water Paint

MUROMATTE Flat Oil Paint

DURADIO Enamel Paint

AUTOMATIC

The WILLCOX Electric PISTON PUMP

Will

maintain supply tank water level or will empty sump as water accumulates—without attention.

Equipment includes Stainless Steel Piston Rod with Bronze Piston, Hoffmann Main Bearings and many other refinements to ensure long and trouble-free service.

Continuous capacity 400 galls. per hour.

Low Current consumption.

Floor space-2' 6" x 1' 3".

Write for folder giving full technical details.



WAT 4961

W. H. WILLCOX & CO., LTD. SOUTHWARK ST., LONDON, S.E. 1.

Eliminate

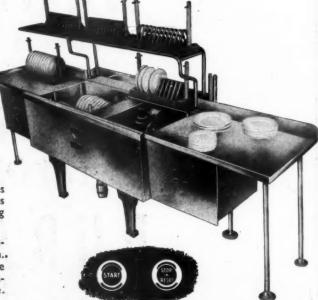
BREAKAGES

THE 'SPLENDID' WAY

*

The 'Splendid' is a complete unit in itself and guarantees clean crocks by physically brushing them with clogless brushes while they are immersed in hot water and rinsing them in a separate compartment in clean water.

All 'Splendid' units are soundly constructed in either Stainless Steel or Hardwood, and require a minimum of attention. The number of well-known catering establishments who use the 'Splendid' machines will bear testimony to their dependability and trouble-free service. All enquiries are welcome.



FINGER TIP CONTROL

A STAINES

"SPLENDID" GROCKERY WASHERS

PRODUCT

STAINES KITCHEN EQUIPMENT CO., LTD.

94 VICTORIA STREET, LONDON S.W.I. VIC.9772

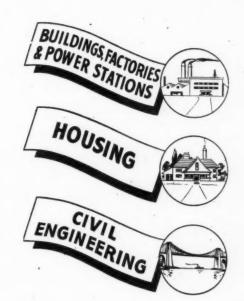
Architects and Engineers—

A NEW BUILDING MATERIAL "CHECOL"

STABLE

LIGHTWEIGHT CONCRETE
with the following properties

- STABILITY.
- LOW COST
- STRUCTURAL STRENGTH
- GOOD INSULATION
- ABILITY TO TAKE NAILS
- IMPERMEABILITY
- NO CONDENSATION
- NO DECORATION PROBLEMS
- FREEDOM FROM CRAZING



Materials and machines are available now for immediate use. Send for full particulars to

CHEECOL PROCESSES LTD., 40 Broadway, Westminster, London, 8.W.1

Telephone: WHItehall 4109 and 4100

Licencees for Scotland : J. & W. HENDERSON, ALBYN TERRACE, ABERDEEN

CHEECOL

Lightweight

CONCRETE



ELECTRIC

Heating and Cooking ™

THE MODERN HOME

As leading manufacturers of Electric Fires, Cookers and other Home Electrical Appliances, we offer over thirty years' intensive and specialised experience to all concerned in planning and building post-war homes.



New Corner Fireplace



Wall Panel Fire

The two fires illustrated are styled to modern tastes; they combine radiant and convected heat in a scientifically balanced output.

'Belling' Electric Domestic Cooking Equipment is, of course, famous for its high efficiency.

Although our present production is largely absorbed by urgent Government orders for Housing requirements, all enquiries will receive our keen and enthusiastic co-operation.

You can't beat a



Belling & Co., Ltd., Bridge Works, Enfield, Middlesex. Telephone: Howard 1212

*Electrolux Silent REFRIGERATORS



designed by Maxwell Fry and Jane Drew, F/F.R.I.B.A.

The "BRITAIN CAN MAKE IT" Exhibition is featuring "miracles" like the space ship that might...one day...perhaps...travel to the moon. The Exhibition houses other miracles which are more down-to-earth like the model kitchens, which are attracting wider public interest than any other exhibits.

... for the Health of the People

And in the heart of these model kitchens is the Electrolux 'built-in' Refrigerator, emphasizing its importance for health in the home. Here is a practical miracle, for Electrolux Refrigerators operate without machinery or moving parts. This means freedom from vibration, low maintenance cost, all-round-dependability and, above all: absolute silence at all times.

The "BRITAIN CAN MAKE IT" Exhibition Catalogue rightly says that Electrolux is "available now", which means that regular and adequate deliveries of Electrolux "built-in" Refrigerators—operated by Gas or Electricity—can be made in 1947 for Housing Schemes.



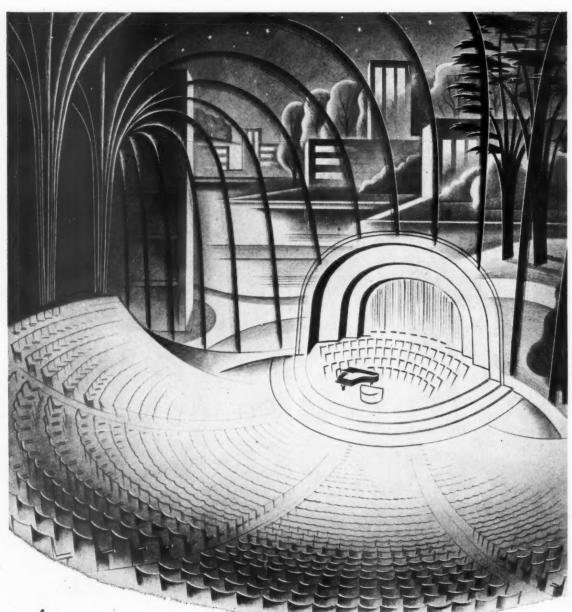
Head Office: 153/5 Regent St., London, W.1

Also Manufacturers of the famous Electrolux Suction Cleaner





By Appointment Suction Cleaner and Refrigerator Manifacturers



YMPHONIES OF COMFORT

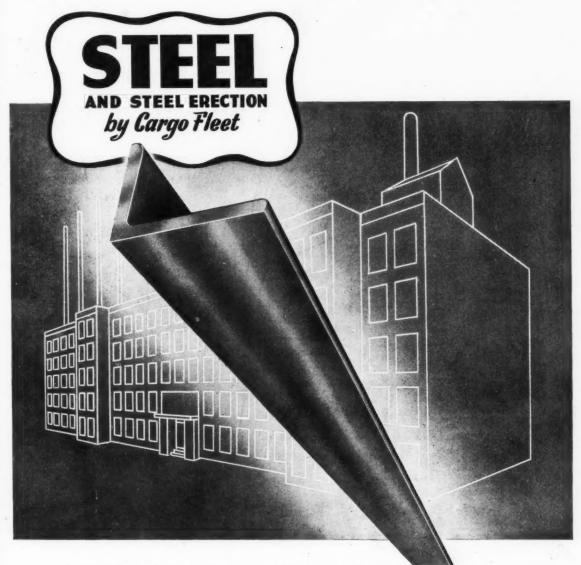
The public hall of the future may structurally be of plastics and other products of the chemist's skill; it will certainly be fully conditioned, warmed, cooled, ventilated without reference to the great outside.

And if symphonies of comfort be performed in our public halls, then surely our own homes will follow with the more intimate 'chamber music' of comfort—Brightside Conditioned Comfort for all indoor life.

BRIGHTSIDE Conditioned COMFORT

Head Office: SHEFFIELD: and BIRMINGHAM, BRISTOL, LIVERPOOL, LONDON, NEWCASTLE, PORTSMOUTH, EDINBURGH, GLASGOW, BELFAST

FOR EVERY MODERN STRUCTURE .

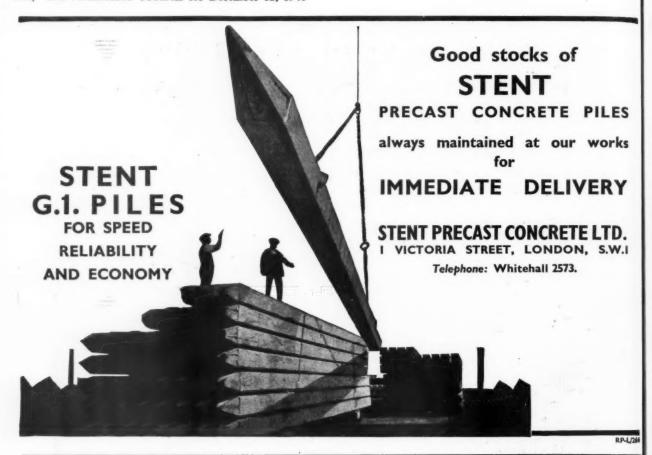


Better steelwork is born only of a thorough mastery of every phase of steel production. Such experience puts the sure touch of knowledge in place of conjecture—produces sound design in place of experiment. At Cargo Fleet we make steel, we fabricate it and erect it. Our design staff is always at your immediate service to give information and advice.

CARGO FLEET IRON COMPANY LTD.

MALLEABLE WORKS, STOCKTON-ON-TEES, also at LONDON & MIDDLESBROUGH
Telephone: Stockton-on-Tees 66117. Telegrams: Carfleco, Phone, Stockton-on-Tees.





OF BUILDING BOARD FIXING

definitely increased with the



METAL'Y CLIP

Save time in erection of interior wall and ceiling boards by using this simplest of all fixing methods. Without the use of screws, bolts or special tools, fixer has only to slide "V" clips on the flanged T bar illustrated, fix latter to purlins with hangers provided, insert board under clips and the job is done! There is no time lost due to awkward fixing in confined spaces since the clips are fixed to the T bars on the bench before erection.

Full details and information sheet on request.



SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, W.C.2. Phone: CHAncery 8159
Works: Sunbury-on-Thames, Middx.



ILES

works

ERY

LTD.

RP-L/26

FACTORIES
WORKS
POWER STATIONS
WAREHOUSES
OFFICES
FLATS



HORSELEY-PIGGOTT

HORSELEY BRIDGE & THOMAS PIGGOTT LTD

HORSELEY WORKS, TIPTON, STAFFS. PHONE: 1104 P.B.X.
LONDON OFFICE: 22, CARLISLE PLACE, WESTMINSTER, S.W.1

Known throughout the World!

(ELMAC

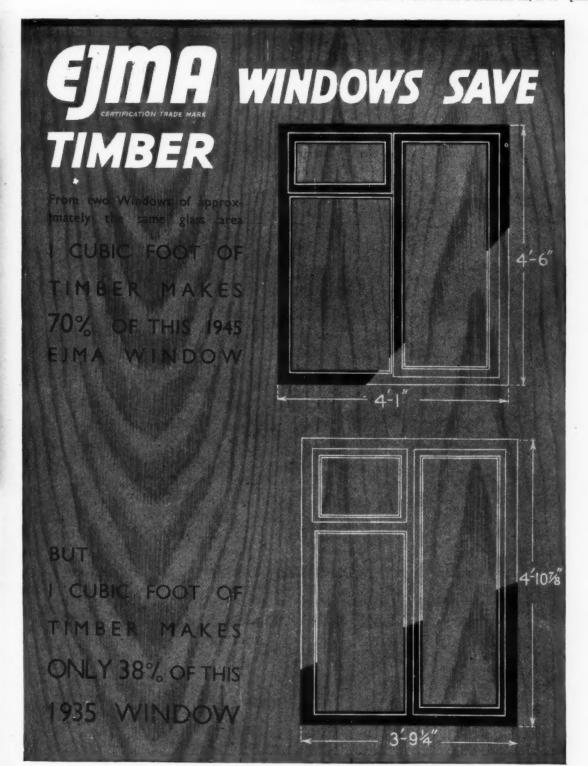


- DURABLE & HYGIENIC
- ADJUSTABLE FITTINGS
- PERMANENT COLOUR & POLISH
- IMPERVIOUS TO WATER & ACID
- NO BREAKAGES

HISED IN GOVERNMENT DEPARTMENTS . INSTITUTIONS . BURLLS BUILDINGS . HOTELS . ETC

Robert McArd & Co., Ltd.
Crown Works · Denton · Manchester

PIONEERS IN MOULDED PLASTIC



E D

C

TS

SH

ID

TC.

THE

ENGLISH JOINERY MANUFACTURERS ASSOCIATION

SACKVILLE HOUSE, 40 PICCADILLY, W.I REGENT 4448 (INCORPORATED)

LEADERSHIP

Devotion to the interests of the gas-using public and a keen understanding of the requirements of modern kitchen design, combined with wide resources for research and technical exploitation, have won for Radiation Ltd. leadership in the field of gas appliance manufacture.

The net result of this leadership can be measured by the continually increasing public acceptance and regard for Radiation products, and the ready appreciation of them by the Gas Industry and all those concerned with the design and equipment of modern labour-saving homes.

Radiation Ltd

COMPRISING

ARDEN HILL & CO. LTD. * NAUTILUS FIRE CO. LTD.

DAVIS GAS STOVE CO. LTD. * RICHMONDS GAS STOVE CO. LTD.

EAGLE RANGE & GRATE CO. LTD. * WILSONS & MATHIESONS, LTD.

FLETCHER, RUSSELL & CO. LTD. * JOHN WRIGHT & CO. LTD.

Radiation House, Aston, Birmingham 6; and 7 Stratford Place, London, W.1



in wan

J. Tit pap by B. Eng At

D at the K Art Art L Coli white incident to contect the and to contect the and to contect the art to content the art to contect the art to contect the art to contect the art to contect the art to content the art to content

A Di Fro Jol Fro J. Re Coo En S. P. e :

In common with every other periodical this JOURNAL is rationed to a small part of its prewar needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates: by post in the



U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.

DIARY FOR DECEMBER IANUARY AND FEBRUARY

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

BIRMINGHAM. Annual Dance of the Institution of Heating and Ventilating Engineers. Birmingham and District Branch. At the Botanical Gardens, Edgbaston. BIRMINGHAM.

D³RBY. English Water Colours from the Hickman Bacon Collection. Exhibition at the Museum and Art Gallery. Until JAN. 11 the Arts Council.)

KETTERING. KETTERING. The Engineer in British Life. Exhibition at the Public Library, Art Gallery and Museum. (Sponsor, The Arts Council.) Until DEC. 30

LONDON. Exhibition of the King's Pictures. At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until Mar. 16

British Road Federation's First Post-War Exhibition. At the Empire Tea Bureau, 22, Lower Regent Street, W.1. Primarily the object of the exhibition is to assist road constructional engineers, designers and other technical experts to maintain contact with the new developments, both in this country and abroad. Its second feature will explain to the general public the existing highway conditions and the plans already made to developments of the future. Weekdays, 10.30 a.m. to 7 p.m. Sundays, 2.30 p.m. to 6 p.m. (Sponsor, BRF.) Until January 11. Lunch and guest of honour at the Savoy Hotel in connection with the exhibition: December 18, Sir Patrick Abertornthia Until JAN, 11

Neighbourhood Planning. Exhibition at the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.)
Until Dec. 13

Anglo-French Art Centre. Exhibition of Drawings and Paintings. At the Anglo-French Art Centre, 29, Elm Tree Road, St. John's Wood, N.W.8. (Sponsor, Anglo-French Art Centre.) Until Dec. 31 J. W. H. King. The Effect of Lateral Reinforcement in Reinforced Concrete Columns. At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) Dec. 12 Professor J. D. Bernal. Is Town Planning Science? At the Town and Country Plana Science? ning Association, 28, King Street, Covent

Garden, W.C.2. Buffet lune Talk and discussion, 1.15 p.m. Buffet lunch 12.45 p.m. DEC. 12

G. E. Haefely. Growing Importance of Plastics in the Electrical Industry. At the Institution of Electrical Engineers, Savoy Place, W.C.2. 5.30 p.m. (Sponsor, IEE.)

Swedish Home Exhibition. At the Building Centre, 9, Conduit Street, W.1. 10 a.m. to 6 p.m. (Sundays excepted.) Until DEC. 14 Your New Home. House Building Indus-Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.)

DEC. 17-JAN. 12

Sir Frank Gill. Engineering Economics. At the Institute of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. DEC. 19 (Sponsor, ISE.)

Sir Alker Tripp. Planning for Road Safety. At Livingstone Hall, Broadway, Westminster, S.W.1. 5.30 p.m. (Sponsor, Sir Alker Tripp. DEC. 19

Welsh Industries Fair. At the Royal Horticultural Hall, Westminster. (Sponsor, National Industrial Development Council of Wales and Monmouthshire.) JAN. 1-7

D. V. H. Smith. District Heating. At the Institution of Mechanical Engineers, Storey's Gate, (Sponsor, IHVE.) Westminster. p.m. Jan. 8 6

M ANCHESTER. Annual Dinner, Institution of Heating and Ventilating Engi-Manchester and District Branch. At the Grand Hotel, Aytoun Street. Americana V Exhibition. At 19. York Street, Manchester, 2. Weekdays, 10 a.m. to 5 p.m. Sundays, 10 a.m. to 12 noon. (Sponsor, Colour, Design and Style Centre

Until DEC. 21 MARCH. RCH. Plans for an Arts Centre. Exhibition at the Town Hall. (Sponsor, The Arts Council.) Until DEC. 31

of the Cotton Board.)

MILFORD HAVEN. The Art of the Film. Exhibition at the Town Hall. (Sponsor, The Arts Council.) Until Jan, 13

ST. ALBANS. History of the Playhouse. Exhibition at the Public Library. (Sponsor, The Arts Council) Until Dec. 23

SWANSEA. Masterpieces from Welsh Houses. Exhibition at the Glyn Vivian Art Gallery. (Sponsor, The Arts Council.) Until DEC. 27

WALTHAMSTOW. Ideas on Design in the Home. Exhibition at the Museum. (Sponsor, The Arts Council.)

THURSDAY,	December		
No. 2707		Vol.	. 104
News			423
RIBA Librarian			424
This Week's Lead	ling Article	1.	425
Astragal's Notes a	nd Topics		426
Letters from Read	ders		427
Berlin Housing E	xhibition		428
Housing Statistics	by Ian Bo	wen	429
Aircraft Assembly	Hall		431
Competition for	Hayling Bea	ach-	
1 1			435
Information Cent	re		438
Societies and Inst	titutions		440

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL'S starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

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

Mr. L. A. J. Heywood, A.R.I.B.A., formerly Senior Assistant Architect in the West Riding of Yorkshire Architect's Dept. has been APPOINTED CHIEF ASSISTANT ARCHI-TECT (Public Buildings) in the City of Leeds Architect's Dept. (R. A. H. Livett, O. B. E., A.R.I.B.A., City Architect) Before his appointment at the West Riding Office he was an Assistant in the Devon County Architect's Dept. for a number of years.

We regret to record the DEATH OF MR. EWART G. CULPIN, a former Chairman of the LCC. Mr. Ewart Gladstone Culpin, F.R.I.B.A., vice-chairman of London County Council from 1934 to 1937, and chairman from 1938 to 1939, died in London. Born in 1877, the son of Ben Ephraim Lamartine and Eliza Culpin, he was educated at Alleyne's Gram-Cuipin, he was educated at Anteyne's Grammar School, Stevenage, and at Hitchin Grammar School. In 1905 he was appointed secretary to the Garden City Association, and in 1907 founded the International Garden Cities and Town Planning hational Garden Cities and Town Planning Association. He wrote many booklets on housing and town planning, and was decorated by several foreign countries for his services in advising them on questions of reconstruction. He was chairman of the Standing Conference on London Regional Planning and a past president of the Incor-porated Association of Architects and Sur-



The Portcullis 4 unit "DARTMOUTH" Gas Fire

GI Un 61,

ho che ho he de gla

ele ro " T

bi

"Britain Can Make It" Invited by the Council of Industrial Design to plan and furnish this charming bedroom, the designer, Mr. John Hill, chose a "Portcullis" gas fire as the ideal method of heating.

All Bratt Colbran gas fires, like this "Dartmouth" model, have precisely those architectural qualities of design which enable them to fit so admirably in a distinguished scheme such as this interior.

Their grace of line is combined with the highest efficiency of performance and excellence of workmanship. There is no better gas fire.

BRATT COLBRAN LIMITED

10, MORTIMER STREET, LONDON, W.I. Telephone: MUSeum 9411-9311

From AN ARCHITECT'S Commonplace Book

GRAND BABYLON PROTOTYPE: I. [From Boston After Bulfinch, by Walter H. Kilham (Harvard University Press).] Boston's population of 22,000 in 1808 had nearly tripled by 1830, when it was 61,392 and still growing. New buildings of every sort, especially hotels, were needed, and in 1828 the cornerstone of a new hotel was laid which was not only the last word in elegance and comfort, but "indisputably the first definitely recognized example of the modern first-class hotel." Previous hostelries had been mere inns or taverns, but the Tremont House stood in a class by itself, and its chaste Grecian facade of white Quincy granite was the pioneer of the long line of magnificent American hotels for which it set the pace. Its list of innovations is amazing and too long to enumerate here. For example, as the guest passed under its granite Doric portico and ascended a short flight of stairs he found himself, not in the usual bathroom, but in a very suave circular lobby whose walls were decorated with Ionic columns "of the order of Philip," supporting a dome of richly coloured stained glass. Behind a counter stood, not a shirt-sleeved tavern keeper, but a dapper clerk in whose immaculate shirt bosom doubtless gleamed the first of the long series of flashing diamond studs which were to become the badge of hotel clerks for several generations, while over his head was perched the first electric room annunciator. Along the front were no less than ten "sumptuously" furnished public rooms lighted by gas and arranged to be thrown together if desired, among them another typical Boston "First," the first hotel reading room, equipped complete with newspapers, magazines and "gazetteers." The main dining room, seventy by thirty-one feet and fourteen feet high, ran along the Beacon Street side and could accommodate 200 diners at once . . .

Replying to recent criticism of the building industry, particularly by the Minister of Health, the President of the National Federation of Building Trades Employers states that THE INDUSTRY IS NOT TO BLAME.

Mr. W. H. Forsdike, President of the National Federation of Building Trades Employers, in an address to members of the ployers, in an address to members of the London Master Builders' Association Central No. 5 area, at Putney, said: Nothing could be more unjust than to try to place the whole of the responsibility for the slowness in completing houses on the shoulders of the builders. The two main reasons for this slowness are that too much other work has been ligensed and that too many houses have been begun. No amount of talk about the black market can alter the fact that the total number of houses now under construction has grown faster than the supply of materials and fittings needed to finish them, and that the available building labour force is spread in such a way as to get results not in 1946 but in 1947. For neither of these has the builder the slightest responsibility. of these has the builder the slightest responsibility. And the application of the Essential Work Order to temporary housing schemes has been most detrimental to permanent house-building. The present feeling of frustration and the present disappointments are due to the fact that promises were made at the General Election which builders had all along said could not be fulfilled. The three main adverse factors in addition to the placing of too. factors, in addition to the placing of too many contracts, are the black market, the registration of large numbers of operatives as builders, and the reluctance of men to travel when there is plenty of work for them near their homes. Though the black market is not extractive as included in the contraction. is not so extensive as is often assumed (and though far more men are being absorbed in industrial building and reconstruction than is generally believed) it is considerable. We have co-operated, and shall go on cooperating with the Government in every way possible in trying to stamp it out. I would point out, however, that if every one of the twelve million householders in England and Wales were able to, and did, exercise his right to have done without licence £44 worth of work per year; the total cost would be £528 millions, the equivalent of well over 400,000 new houses. None of well over 400,000 new houses. None of this would be black market work. On the

nd

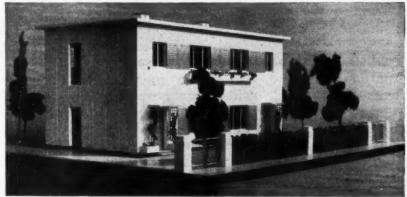
11,

ch

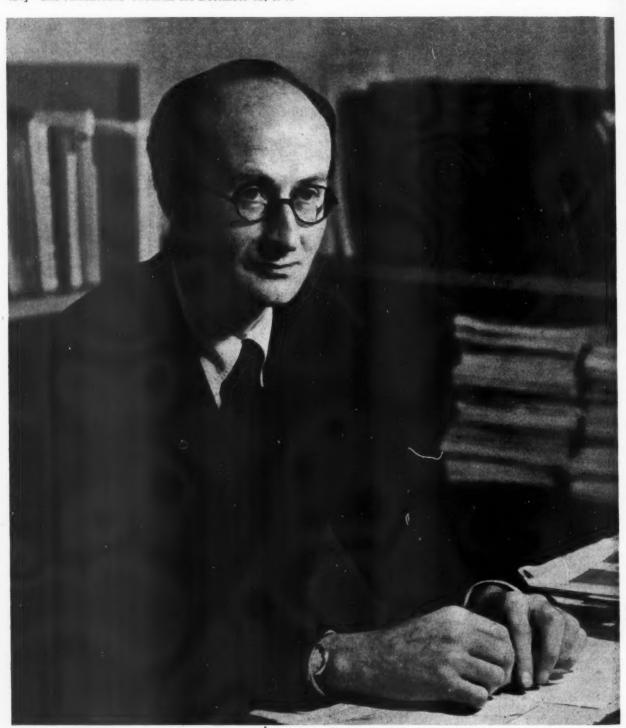
other hand, if none of it were carried out, there would be large scale unemployment, because even with a sufficiency of materials it is not possible to employ the whole of the building force on the building of new houses. As regards administration, I believe in giving every operative the opportunity of becoming a master. Indeed we must do so it he industry is to attract the best men, and many of the great firms of to-day were founded by men who began as operatives. But the recent increases in numbers is alarming, and if the matter were looked at solely from the point of view of the national in-terest, it might be thought that, for the time being at any rate, these men would be better employed in manning the permanent housing sites than in running firms so small that they can undertake only works of repair. Mr. Bevan has attacked contractors who, in addition to building new houses for local authorities, are building houses privately and carrying out legitimate repairs. Instead of blaming them, I say he should have recognised the great help which they have given and are giving to local authorities. given, and are giving, to local authorities. These contractors are amongst the best in the land, and it is because of their widespread activities that they are able not only to put the best of their men on to permanent housing, but to organize them into balanced gangs. Without such gangs there cannot be full output.

Once again the RIBA is resuming its pre-war practice of arranging in form al LECTURES FOR BOYS AND GIRLS during the Christmas Holidays.

Mr. G. A. Jellicoe, F.R.I.B.A., will give the talks, and the subject chosen is Architecture: What it Means, How it Affects You at Home, at School, at Play. The series compares the works of man with those of nature, such as the sea shell or the spider's web, and explains how the quality of architecture is the prerogative of man alone. The way in which science gives rise to new structural forms is discussed, a comparison being made between modern and traditional building methods. But architecture has a greater story to tell than that of scientific achievement only, and how this story may be read and understood and become a source of daily pleasure, is the theme of all three lectures. The lectures will be given at the RIBA on the following dates:—Monday, December 30, 1946, 3.0 p.m.; Wednesday, January 1, 1947, 3.0 p.m. Friday, January 3, 1947, 3.0 p.m. Tickets for all or any of the lectures may be obtained on application to the Secretary, RIBA, 66, Portland Place, W.1. The tickets are free, but owing to the limited seating space available, it is hoped that application will not be made for more tickets than can be used.



Model of one of the five hundred Wates prefabricated concrete permanent houses to be built at Casablanca, Rabat and Fez, by the French Protectorate of Morocco. A house, containing hall, living room, dining room, kitchen, three bedrooms, bathroom and separate lavatory, can be completed ready for occupation in four weeks.



RIBA Librarian

Mr. Roderick Eustace Enthoven, A.A.DIPL., F.R.I.B.A., has been appointed RIBA Librarian in succession to Mr. Edward J. Carter, B.A., A.A.DIP., A.R.I.B.A., who last April was appointed Counsellor in the section of the Preparatory Commission of UNESCO. Since Mr, Carter's resignation, Mr. Enthoven has been acting as temporary partime librarian at the RIBA. Educated at Clifton College, where he was Scholar, Mr. Enthoven received his architectural education at the AA School of Architecture, being elected Associate RIBA in 1925 and Fellow in 1932. After

serving as assistant to Mr. H. S. Goodhart-Rendel, F.R.I.B.A., he was in practice with the Hon. Humphrey Pakington, F.R.I.B.A., and John Grey, F.R.I.B.A., until 1931, and subsequently with the former until 1945. From 1926 to 1928 he was on the teaching staff of the AA School. From 1940 to 1944 a Civil Camouflage Officer in the Air Ministry, he served in Italy in 1944-45 as a Monuments, Fine Arts and Archives Officer. On the AA Council since 1931, he has served in various offices, including that of Honorary Librarian. He is now Vice-President.

Here are the Christmas and New Year arrangements for the BRITAIN CAN MAKE IT EXHIBITION. The Exhibition will be open:—Christmas Eve, Tuesday, December 24, 10 a.m.-6 p.m. Boxing Day, Thursday, December 26, 10 a.m.-6 p.m. New Year's Eve, Tuesday, December 31, 10 a.m.-6 p.m.

The Architects' Registration Council has received complaints of PRO-MISCONDUCT FESSIONAL arising in connection with the desire of the War Damage Commission that all war damaged property in the same street should be grouped under one architect and one builder. Some architects, says the Architects' Registration Council, have mistakenly assumed in consequence that they were justified in asking owners of property by whom they had not been commissioned, to appoint them as architects for the purpose of their War Damage Claim. The Architects' Registration Council states: It is unprofessional and contrary to the Code of Conduct for an architect to solicit business, and in order to assist those architects who may be in doubt as to the proper course to pursue, the following has been drafted to indicate the proper method of approach in such cases:—"Dear Sir, I have been appointed architect by Mr. —, of — Road,
—, in respect of his War Damage
Claim. The War Damage Commission desire that as far as possible the repair of war
damage to several houses in the same street shall be undertaken by one architect and one builder. In these circumstances I shall be much obliged if you will let me have the name of your architect, if any, and if not, perhaps you will be good enough to let me know what arrangements you are making for the repair of your property.— Yours faithfully.

Mr. Barnes, Minister of Transport, has officially opened the extension of the London Transport Central Line from LIVERPOOL STREET TO STRATFORD.

The new extension is part of a greater scheme estimated before the war to cost £40,000,000. The section just opened cost about £3,500,000.

The Ministry of Health has approved the ENNERDALE LAKE WATER SCHEME in principle. The Town Clerk of Whitehaven, Cumberland, has received a telegram from the Ministry of Health stating that the Ennerdale Lake water scheme has been approved in principle. It is proposed to raise the height of the lake by 4 ft. in order to supply several million gallons of water a day to a new rayon factory at Sellafield, and provide an additional supply to Whitehaven.

lel.

rey

31,

26

ol.

Air

its.

of

The Electricity Commissioners have approved the establishment of a NEW POWER STATION AT BRUNSWICK WHARF, POPLAR. It will cost the Poplar Council £240,000.

BE FIRM, MR. SILKIN

R. SILKIN, when addressing the recent Regional Conference of the National Housing and Town Planning Council in London, remarked that when the plan of the City of London appears from the hands of Holden and Holford we will have a complete area of 2,700 square miles with a population of eleven million, covered by an outline plan which is generally accepted by all the authorities concerned and the Government. Le Corbusier has remarked that "words have their own destinies," and it is the destinies of the words "outline" and "generally" that interest, and will interest more and more, the eleven million citizens and, indeed, all the inhabitants of these islands.

All bodies reporting on the Greater London Plan prepared in 1944 by Sir Patrick Abercrombie, from the first to the latest,* that of the Advisory Committee set up under the chairmanship of Mr. Clement Davies, M.P., agreed "with the general policy of decentralization and regrouping of population and industry, and consider that the four Rings and the proposed regulation of development in each of them constitute a sound basis for the general structure of the Plan." The whole scheme may be visualized as a sort of leap-frog in which it is estimated that 415,000 people will leap from the Inner Urban Ring, over a static Suburban Ring and a sterilized Green Belt, into an outer Country Ring (the latter already having absorbed large numbers of people driven outward during the war). Further, a fundamental aspect is that the whole region should be stabilized at its pre-1938 population.

It will at once be appreciated that if the general outline is to be fruitful the principle that there must be no increase in the total population of the Region must be rigidly observed, and that the Green Belt must be rigidly respected. Any modification of these cardinal principles will throw the whole scheme overboard. It is very regrettable, therefore, that the LCC should signalize its acceptance of the Plan by proposing quasi-satellites within the Green Belt itself. Already the Advisory Committee has to report that the LCC is to accommodate 97,800 people on eight sites in the Green Belt "beyond reasonable possibility of review." The committee also adds the sinister statement that "it is not satisfied that in every case full and proper consultation . . . had preceded the decisions which are said to have been taken." Of the general aspect of the quasi-satellites the committee agrees with Sir Patrick Abercrombie, and states with sense that they

"conflict with the fundamental principles of planning." Mr. Silkin, during his address, made it quite clear that he is unable to accept the committee's proposal to add 160,000 more people to the existing communities within the Green Belt. We hope that he will go further and that he will be courageous enough to be unreasonable and review the serious

Advisory Committee for London Regional Planning, Report to the Minister of Town and Country Planning. (HMSO, 2s. 6d.)

inroads already being made in a great and beneficent proposal. We feel sure that the suggestion that where quasisatellites are too advanced to modify, *i.e.*, where tenders have already been accepted, industrial buildings should be built concurrently with or before the houses will find acceptance and hope that the labour and materials will be made available to erect them.



The Architects' Journal

13 Queen Anne's Gate, Westminster, S.W.1
Phone: Whitehall 0611

 \mathcal{N} O T E S

&

TOPIC

TO-MORROW'S HOUSEY-HOUSEY OR PUT YOUR MONEY ON MODERN

Nationalism in architecture is to-day as often discredited as nationalism in politics. Yet there are many architects who can tell from a glance at a photograph whether the building it depicts was to be found in France, Poland, or Scandinavia, and to most of us perhaps Modern American Domestic is a style as distinctive as Venetian Gothic.

We have studied it in the American architectural magazines of the past decade. We have admired its virtues—the brilliant sense of siting, silhouette and landscape, the crisp planning and the assured handling of materials. We have grown familiar with its clichés—the random rubble fireplace wall and the venetian blind over the huge fixed windows. We have goggled at the luxurious finish and lavish equipment. Considering that perhaps only a few

hundred houses in the whole of the USA have been designed in this manner, their impact upon the architectural world has been impressive.

In the opinion, however, of George Nelson and Henry Wright (both of the Architectural Forum) this impact has not yet been felt upon the heads of the great public. Accordingly they have assembled their case for the modern home, illustrated it lavishly from the best examples of American domestic architecture, and presented it handsomely under the title of Tomorrow's House [published in this country by the Architectural Press, 15s.].

The book is designed primarily for the layman-architects may find the lack of plans irritating, the text a trifle over-dramatised-and the author's thesis is put over with the relentless geniality of a sponsored programme on the radio. [You will find some pretty smart slogans linking like widowspiders in the text, such as: "Tomorrow's house is here to-day," "Home is where you hang your architect," "You cannot walk backwards into the future," "Don't keep up with the Joneses, be the Joneses." But behind this persuasive persiflage is a great deal of useful information and sound advice on a wide range of subjects from solar heating to finance, from bathrooms to cupboards, and from ventilation to kitchen planning.

There are nearly a hundred pages of well-chosen photographs, illustrating, houses and interiors, the design of which is uniformly accomplished and often remarkably distinguished. It is true that nearly all the examples are luxury or semi-luxury houses, but new movements must always start that way since only the rich can afford to experiment.

At the same time it seems to me that Messrs. Nelson and Wright have weakened their case by such concentration on wealthy homes and on ideas, such as the storage wall, radiant heating, air-conditioning, and the disintegrated bathroom which, for all their ingenuity, are still very, very expensive. It is like writing a book, in fact, to prove that an expensive house is better than a cheap one, and many laymen may be tempted to feel that if modern design cannot be carried out cheaply-at least until technique catches up with ideas-then it's no use to them.

It seems a pity that practically no well-designed cheap housing—such as that illustrated in the recent Penguin, Homes by the Million—has been included to comfort those with more moderate incomes—though against this the authors may argue that those sorts of people don't buy three-dollar books, or have their houses designed for them. On the whole, however, the authors succeed both in proving their case, and in producing a most stimulating and informative book.

Incidentally it appears that reputable architects in America charge 10 per cent. for domestic design. "There are those," say Messrs. Nelson and Wright, pityingly, "who charge as little as 6 per cent., but they do not fit into the group whose work appears here." Another bunch added to those outcasts—the men who do not drink Lord Calvert whisky, who do not belong to the After-Shave Club, and who never intend to be "home for keeps" to Guardian table-silver.

SUBURBAN STUDY

Mr. J. M. Richards has been to Aleppo and come back master of a new subject. It is not, as you might perhaps imagine, the history of crusader castles nor the iconography of the temples of Petra. It is, quite simply, that province of the amateur and the anarchist, the English suburb. In his new book, Castles on the Ground [Architectural Press, 8s. 6d.], he thus penetrates practically virgin territory, in which the faint footprints of James McQuedy, and Patrick Donner, the tell-tale scars left by Dr. Pevsner's inquiring kukri

and the smouldering ashes of Mr. John Betjeman's numberless camp fires are the only indications that previous pilgrims have passed that way.

that

have

con-

lon

liant

dis-

all

ex-

c, in

ouse

anv

at if

out

ique

use

110

as

uin,

in-

ore

inst

ose

llar

ned

tha

heir

mu-

able

per

are

ght,

s 6

the

re."

out-

ord

g to

to

of a

ight

phy

is,

the

lish

on

ess.

rac-

the

edy,

cars

ukri

The book, we are told, was written in the Middle East, beneath whose brassy skies, pricked with minarets, Mr. Richards worked for two years, flicking moodily at the flies, and peering wistfully across Europe at the distant gables and shrubberies of Rickmansworth and Cricklewood. Inevitably the picture he draws-and he admits as much—is idealised, for if his rose-red spectacles are not half as old as Time they are well-misted with an exile's nostalgia. But distance has not only lent its customary enchantment, it has intensified the affectionate insight with which Mr. Richards attacks his subject.

Follow him on a short tour of suburbia, from the Iron Jelloids ads. on the risers of the station footbridge to the brass milk churn in the dairy window. Sit with him in the gilded wicker chairs of the Odeon café or check his counting of the diminishing ebony elephants on the mantelpiece of "Holmlea." Obviously we are in experienced hands. But this is no dude safari, organised merely for sophisticates to gape and giggle at the natives and their funny ways. It is a serious study of a serious subject.

Critics often deplore the absence of a contemporary vernacular style of architecture. They overlook, suggests Mr. Richards, the English suburb, unfailingly consistent, and rooted in the people's instincts. Briefly he analyses the origins and qualities of this vernacular idiom, and attempts to estimate it's value. Scenic by nature, it is a true development of the picturesque landscape tradition; essentially romantic, it reflects faithfully the ideals of a groping and uncertain world. Next he introduces us to the inhabitants of suburbia, whom he classes broadly as the "distributors" (as opposed to the "consumers" or "producers") of human society, and investigates their aspirations and instincts. Finally he rebukes the doctrinaire schoolteachers of good taste and dismisses the completely planned suburb as a contradiction in terms.

So brief a summary of Castles on the Ground does no justice to a book which will clearly puzzle some and irritate many. It need only be said in conclusion that it is written with Mr. Richards' usual lucidity and assurance, and that it is most sympathetically illustrated and handsomely presented by those two gone-native pioneers of the suburban field, Mr. John Piper and the Architectural Press. Give it to your architect friends for Christmas and watch them jump.

PERIOD PIECE

Design in Modern Life*—an illustrated symposium of broadcast talks originally published in 1934—has for some reason just been re-issued. I say "for some reason," because the book says nothing new. The contributors are, of course, distinguished, but their contributions are hardly worth re-reading now any more than, say, the A.J. for December 12, 1934.

Through the pages blows that chill, impertinent breeze of the puritan thirties, when the Good Fairy Reinforced Concrete put all evil things to Mr. Maxwell Fry writes of "belongings fitted scientifically into accessible cupboards." God defend .s from belongings which must be "scientifically fitted." Mr. Gordon Russell writes, "Many people regard their living-rooms as museums, full of bits and pieces, of no earthly use except to fill space, and only adding to the labour of cleaning." Come, come, Mr. Russell, you don't believe that any more, do you? God help us if we can't fill our living-rooms with bits and pieces—and nobody who likes a pretty jug will mind dusting it occasionally.

And surely somebody could have tried to bring the pictures reasonably up-to-date? The Modern Girl, in Mr. Laver's article on Fashion, has a skirt down to her ankles Ido you remember those far off days?l, and the livingrooms illustrated are as stiff and cold as my grandmother's parlourmaid.

ASTRAGAL



LETTERS

J. Smith, Ex-Major R.E.

Hector O. Corfiato, F.R I.B.A., S.A.D.G. Professor, University of London, School of Architecture

J. L. Musgrave, M.I.C.E., P.P.I.H.V.E., Chairman, Richard Crittall and Company Ltd.

Inigo C. Duke

Registration

SIR,—May I express my keen support to Messrs. Lloyd and Myers, ex-Forces, in their complaint of lack of interest and help shown to young members of H.M. Forces who have had no consideration for time lost to studies? No real allowance has been given to people like ourselves while others have during the war been able to study and qualify, especially when as I find many of the instructors of architectural school are of this ilk—and try to tell people who have had considerable experience in engineering works controlling 200-400 men how to organize and run jobs, how to build, etc. I do think that some form of Registration should be granted for those who have been away over five years and have from their experience in the Forces proved their abilities as engineers and constructionists. This is something an organization like the ABT should take up for us.

experience in the Forces proved their abilities as engineers and constructionists. This is something an organization like the ABT should take up for us. Furthermore, I wish to express my sympathy tor the youngsters (male) who are now being called up for service to the exclusion of women who demand equal rights with men; they are going to pinch jobs in these youngsters' absence.

Newcastle

J. SMITH, EX-MAJ. R.E.

Reconstruction and Restoration

Sir.—In the leader on Reconstruction and Restoration, two issues were raised. First, the restoration of damaged and historical buildings in Europe and this country; secondly, the fitness of modern architects to cope with the situation.

The first issue may be debatable, depending on political thought and other conditions extraneous to professional activities. With regard to the second issue, the suitability of architects involves a question of

[•] Edited by John Gloag (George Allen & Unwin, 12s. 6d.)

BERLIN HOUSING EXHIBITION











Although the housing shortage is pretty international these days, there can be no area in the world so desperately in need of new houses as bomb devastated Germany. Under the guidance of the British authorities steps are being taken to provide modern homes for the many families who are now living a miserable existence in air raid shelters and the ruins of their former houses. Several different types of prefabricated temporary houses have been designed and to give Berliners a pre-view of what their future tem-porary towns will look like, an exhibition was held recently at the City Palace in the Unter den Linden. Models were shown of houses designed in Germany, America, Russia, Great Britain and France. They are all single-storey. Top, the all-plastic house which can be erected inside eight hours; it is designed by Karl Boettcher, Chief of Berlin's Housing Research Department, Centre left, the English house. right, the American. Bottom left, the Russian. Bottom right, the French.

training and a broad mental outlook, with the love and understanding of architecture. At a time when some architects venture in

At a time when some architects venture in fields where æsthetic values are forsaken in favour of pseudo-scientific principles, it is gratifying to see that the alarm has been raised in letters which have recently appeared in the Press under the signature of Mr. Arthur Davis, R.A.

In France—where even the great Wren found a source of inspiration—there is a post-graduate examination for the qualification of architects of historical monuments.

tion of architects of historical monuments. Thus a team of architects, capable of grappling with a situation such as the one which has arisen to-day, is in existence, and in spite of housing shortages and financial in spite of nousing snortages and mancial difficulties, the restoration of monuments of national value has already been started. In the Bartlett School of Architecture where universal teaching is the aim, the understanding and study of mediæval and classical architecture without ignoring modern tendencies, is not only encouraged but to a certain extent. but to a certain extent is compulsory.

Good architecture is a result of inspiration arising from knowledge, and it is to be hoped that some official body will foresee the difficulties of the situation, and promote the necessary organization to direct the restoration of historical monuments.

RE

70,

rep

poi Ma

reh ger fan 10. and req

giv

HECTOR O. CORFLATO, Professor, University of London, School of Architecture. London

District Heating

SIR,—When suggesting that each house-holder should have freedom of choice to enable him to regulate his heating to his individual taste, Mr. R. F. Brooks Grundy overlooks the serious burden to the house-holder in the firing and regulating of the heating and/or hot water boiler, and the very low efficiency of such plant when installed. The modern boiler may burn coke stalled. The modern boiler may burn coke without visible smoke, but there is the emission of fumes into the atmosphere and the dust and dirt due to firing and removal of ashes to contend with and the travel

of the coke or coal cart through the streets.

To enable a district heating scheme to be effective, each building in the area must be effective, each building in the area must be a contributor, and towards the capital cost of the installation should go the saving in the construction of hearths, chimney breasts and chimneys as well as the coke store. This capital sum is more than sufficient to cover the cost of the equipment in the building, providing the heating system is arranged to provide background heating except in the living rooms and an adequate supply of hot water. supply of hot water.

If one of the forms of radiant heating is used instead of convection heating, loss of heat through undue ventilation is reduced and the cost per week per house should not exceed 6s. if the houses are designed and built to be reasonably heat tight, roof and ground floor insulation in particular being sufficient.

being sufficient.

The actual facts can only be ascertained from a full scale experiment, but there is no doubt that the improvement in the cleanliness and health of the community and the reduction in the toil of the housewife will fully justify the expenditure involved.

J. L. MUSGRAVE, Chairman, Richard Crittall and Co., Ltd.

London

Equivalent Qualification

SIR.—The answer to Mr. F. R. Jelley's enquiry in the recent Journal as to what is an "equivalent qualification" to Associateship of the Royal Institute of British Architects is surely clear. An example would be the case of an architect who, having qualified himself technically by receips a graphical fied himself technically by passing examina-tions making him eligible for A.R.I.B.A. then for social reasons became instead an Asso-ciate of the Incorporated Association of Architects and Surveyors. INIGO C. DUKE Petersfield

TATISTICS

MONTHLY COMMENTARY ON THE OFFICIAL RETURNS—10

by

Ian Bowen

RESULTS TO DATE

with ire in en in it is

ently Wren lifica-

nents. e of

incial ments arted. cture

the and oring raged

ation resee

mote the

TATO. ndon,

cture.

ouseis inundy ouse f the

n incoke

the and noval

Tavel reets. st be

cost ng in easts store.

nt to the m is g ex-

quate

ating

loss luced nould igned roof

ained re is the and ewife lved. RAVE, man. Ltd. n

lley's nat is

ciaterchi-

ld be

quali-

minathen Asson of DUKE

At the end of October there were 40,197 Permanent and 70,241 Temporary houses completed in Great Britain. This represented an increase of 8,187 Permanent and 13,081 Temporary houses since the end of September. In all, since March 31, 1945, there were stated to be 270,216 "Families rehoused," counting in repair of war-damaged houses, emer-

gency huts, and requisitioning.

This figure is not complete, since there were an additional 12,894 families in Service or Government camps. Of the 12,894 premises, 10,265 "had been offered to Local Authorities for housing purposes and were considered suitable for those purposes." The other 2,269 families "occupied" accommodation in "267 camps which are still families "occupied" accommodation in "267 camps which are still families to Covernment purposes or are unsuitable for housing.

families "occupied" accommodation in "267 camps which are still required for Government purposes, or are unsuitable for housing, or are still subject to decision as to their future use." These figures give some idea of the size of the squatters' direct and indirect effect on the emergency re-housing programme.

The figure for "families re-housed" is, of course, a gross figure; no doubt the gross figure is the significant one in the early months of the programme, and wastage due to death, dissolution of families for one reason or another, or to moving on elsewhere to fresh accommodation, has hitherto been small. But such wastage must occur on a significant scale as time goes on. Sometimes a worker occur on a significant scale as time goes on. Sometimes a worker who has been "re-housed" in, say, London, will move to Birmingham and be "re-housed" all over again. The gross figure may thus in time become misleading. For instance, it would be important to know if the same premises can appear more than once in the

PROGRESS IN CONSTRUCTION OF HOUSES

To give a bird's eye view of progress in the construction of houses is worthy of note. The number of temporary houses under begun and finished in each month is shown in the following table:—

TABLE I.—Permanent and Temporary Houses Begun and Finished in Great Britain (Monthly from February-October, 1946) (to nearest 100)

			Perm	anent	Temporary						
			Begun	Finished	Begun	Finished					
ebruary			15,600	650	5,300	4,000					
farch			19,400	1,500	6,000	4,500					
ipril lay			19,400	2,100	7,800	5,000					
flay			22,700	2,400	7,500	4,400					
une			18,600	3.200	6,600	4,500					
uly			22,100	4,400	7,600	5,300					
lugust			20,700	4,600	7,500	6,800					
eptembe	r]	23,400	6,300	7,200	9,900					
October			25,200	8,200	9,500	13,100					

The jump in commencements as well as completions of temporary houses is worthy of note. The number of temporary houses under construction is declining, a healthier sign indicative of better speed in building.

Whatever may be wrong with the building programme it is not any delay in beginning houses, as this Table very strongly shows. Permanent houses were being begun (that is entering the category of "houses under construction") at the rate of 25,000 a month in October, that is at an annual rate of 300,000 a year. This really is the crux of the matter. For what is the size of the programme that is soon to be announced to the industry? Is it of the order of

25,000 houses finished per month by October of next year? If it is short of this figure then clearly it is anticipated that delays in the completion of houses may be increased.

The Housing Return explains that between the selection of sites and the completion of houses ready for occupation "there is a long chain of events equivalent to the pipeline of materials and components production in the engineering industry... During the early stages . . . the number of houses under construction and so on will continue to rise in advance of a corresponding number of houses completed. As the production of houses by Local Authorities [why not by private enterprise as well?] revolves into a smooth and continuous cycle of operations, the number of houses or house and continuous cycle of operations, the number of houses or house sites at the various stages in the chain of production will tend to be roughly equal." Read one way this passage suggests, or implies, a complacency with the piling up of "houses under construction" inside the pipeline which Mr. Bevan himself has forcibly disclaimed.

inside the pipeline which Mr. Bevan himself has forcibly disclaimed. Houses have been begun speedily partly because the Minister of Health and his colleagues have energetically stirred the administrative machine into action on this point. The responsibility for finishing the Houses, the Minister now claims, rests with the building industry which has the contracts for the local authorities (apart from those authorities which are working with direct labour). This argument has some point; the question of output, incentives and managerial efficiency are all involved.

But there is another, more purely statistical and programming point. No local planner, no architect charged with suspension, or builder with execution of a contract, is unaffected by the danger of an overall miscalculation on programmes. If far too many houses are begun for the materials' resources of the country, then delays and recriminations will be unavoidable. It may well be the right policy to continue to "begin" houses at an increasing monthly rate; it can only be the right policy if it is known that the expanding policy to continue to "begin" houses at an increasing monthly rate; it can only be the right policy if it is known that the expanding capacity of the materials industries will make it reasonably sure that a majority of the houses can be completed on time. Whether they will be completed on time is the responsibility of the industry, including the operatives, if materials are available; but whether they can be completed is partly the responsibility of those who calculate capacity ahead.

THE MATERIALS POSITION

Thus the key to next year's results is the quantity of materials in relation to the very large numbers of houses for which contracts have been let.

Production figures for a number of building materials and components, some of which were not previously published, now appear in the Housing Return as well as in the Statistical Digest. They give a complete picture of what is happening, but no indication of the anticipated rate of expansion in the months to come. Something may be gleaned, however, from the elasticity of different materials' response to demand over the last 16 months. Thus we may compare the different roofing materials, as is done in Table

TABLE II.—Production of Roofing Materials July, 1945-October, 1946 (Monthly)

	Clay tiles	Concrete tiles	Slates	Asbestos cement sheeting	Roofing felt
	Th. sq.	Th. sq.	Th. sq.	Th. tons	Th. rolls
1945— · July	21.1	4.1	18.3	18.5	144
1946—				00 #	400
April-June	33.5	19.4	23.0	26.7	192
Jûly-September	49.9	37.1	22.25 (July- August)	26.7	164
October	63.0	54.7	n.a.	25.0	196
October as on July, 1945 = 100	300	1,367	(133)	134	

The immense elasticity in production of concrete tiles, and in less degree of clay tiles, is strikingly illustrated in contrast to the relatively sluggish improvement in slate and asbestos cement roofing sheet production. This represents a contrast between the industries which cannot be overlooked for the design of an even greater housing programme.

Ing programme.

The argument from the past cannot be pressed, of course, if any circumstances are known that may refute it. Thus, monthly output of gypseous plaster was in October, 1946, slightly more than double the level of July, 1945, while the output of plasterboard was rather less than double. Future production of these two commodities may not necessarily move in step, since plasterboard capacity is being increased. increased.

For some items, such as lead, copper and salt-glazed pipes, production, though much above last year's level, is not progressively increasing from month to month. For these items (as also for manhole covers and frames, and lavatory basins) output in October, 1946, was less than for some previous months. These are in the main industries that use heavy labour, and it is clear that 20,000 or 30,000 more men in the materials industries would be worth now 100,000 in building itself.

On the right of the page graphs of the production and stocks posi-

On the right of the page graphs of the production and stocks position of certain materials are shown. Comparison of the fall of stocks with rise of production indicates how far, despite increased output, consumption is still ahead. In the Architects' Journal for Novem-

ber 21 graphs of 8 other materials were given.

THE LABOUR POSITION

The labour position in the building and civil engineering industry is indeed remarkable. Between July, 1945, and October, 1946, the number of employed operatives increased by 408,000. There was the huge figure of 618,900 men engaged on housing work of all kinds at the last return (if for the moment we neglect to question some of the more doubtful estimates in this total).

It cannot be doubted that labour, in total, is not now the bottleneck for building work. The success of the industry in absorbing to much labour, seeaks well for the polapning and mechinery that

It cannot be doubted that labour, in total, is not now the bottleneck for building work. The success of the industry in absorbing so much labour speaks well for the planning and machinery that has accomplished this result, and—despite all criticisms—for the general attractiveness of the jobs offered to demobilised men, and

to work from other industries.

The distribution of the labour force between its different purposes is still not satisfactory. The numbers on war damage repairs to houses is falling steadily, but still amounts to 148,000 men. The nearly complete restoration of war-damaged property would seem to be possible, with such a force, much sooner than once was hoped. The proportion between those on the preparation of sites, and on actual construction of houses, is more disquieting. There has been a fall in men working on site preparation. This must eventually lead to delays. Licensed (and unlicensed) work other than housing still attracts a few thousand more men each month.

It is interesting to observe the increase of labour on the construction of new houses since the beginning of this year. The figures are

as follows:-

Table III.—Building and Civil Engineering Labour (Operatives) Employed (000's) January-O:tober, 1946

		Total (1)	new houses (2)	per cent. of (1) (3)	number on new houses (4)
anuary .		721	87	12	+16
ebruary		739	108	14	+21
F		772	130	17	+22
L mm I	 	820	144	17	+14
£		847	167	19	+23
Tan		890	191	21	+24
fax line		913	203	21 21	+12
- recented	 	914	220	24	+17
leptember		929	231	25	+11
horobox		943	245	26	+14

A glance at this table shows that the numbers on new housing have absorbed the bulk of the increase of the total operative labour employed. Thus, of the net increase in total employed of 123,000 between April and October, no less than 101,000 were absorbed on to new housing work—or, strictly speaking, there was a net increase of this amount. But absolute amount of increase each month is slowing down (see column 4). In four out of the first six months of the year, employment on new housing increased by over 20,000. From July to October the monthly rate of increase averaged only 13,500.

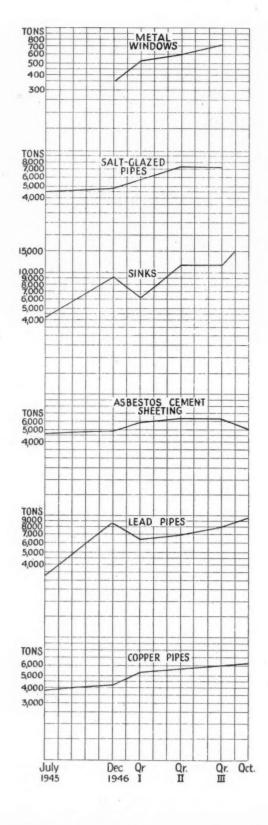
If this rate of increase can be maintained there will be 400,500 men on construction of new housing by September, 1947.

NON-TRADITIONAL HOUSES

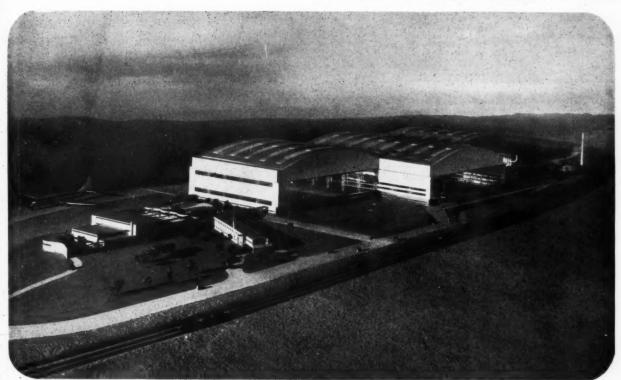
The Housing Return contains more details of the programme of non-traditional houses being built in England and Wales. 1,517 of these houses have been completed; 16,687 more are under construction, and a further 17,542 have already had tenders approved. 19 types are listed, plus a 20th category of "other types."

The Airey urban houses are off to a good start, with 158 houses in the details and 17 more under construction; and Feetings are the construction.

The Airey urban houses are off to a good start, with 158 houses finished, and 17 more under construction; and Easi'orm have 414 finished and 2,071 more in hand. The largest programme of all, the BISF, had two houses finished in October. 384 Swedish and 240 Howard houses are also ready, 1,517 houses are perhaps a small contribution out of a total of 40,197, but if the speed of the non-traditional house keeps up it may yet play a bigger part in the programme. One could judge more fairly of the merits of "mass-production" if a few more large orders were placed, apart from the BISF programme, but no doubt results of these first batches will have to be investigated first.



Logarithmic graph showing the average weekly production of materials from July 1945 to Sept. 1946.



A general high-level view of a model from the north-east, showing the vast double glazed end walls.

A I R C R A F T ASSEMBLY HALL

ARCHITECT: ERIC ROSS. PLANNING AND DESIGN COLLABORATORS: DAVID DUR. ABERDEEN AND P. N. TAYLOR. CONSULTING ENGINEERS: BRIAN H. COLQUHOUN AND PARTNERS

This hall, with its 2,750-yardslong runway, now being built at Filton, has been planned for the erection, initial production and flight testing of the giant aircraft, the Bristol 167, popularly known as the Brabazon Mark I. The major requirements were three main bays—a bay for detail erecting, a bay for final assembly, and a port and servicing bay. A 300-feet minimum width clearance to each bay was demanded, and doors of this width were required to give a similar clearance from each bay on to the apron. A cranage system, capable of lifting a 10 tons load anywhere over the erecting bay, was a further basic requisite. At no point was the height of the hall to fall below 60 feet. The doors were to allow a similar clearance.

The project may have considerable future extension and may even be integrated into a grand scheme for a West of England airport.

PLANNING—The Assembly Hall turns its back to the runway. The doors face south and open on to a protected apron, 265 feet wide. The doors are continuous sliding-folding. The overall opening is 1,045 feet long and 65 feet 9 inches high. The doors are in six batteries, two per bay, and are of aluminium. The batteries can open or close in either direction, to the sides or the centre of each bay. Each battery carries two 5 h.p. electric motors, one at each end, and the whole side of the hall can be opened up completely in two minutes.

Facing the doors, at the north side of each bay, is the immense double-glazed wall with 5 feet between the glass for ease of cleaning and servicing, forming an insulating blanket. The total length of these glass walls

is over 1,000 feet and the glass height is 50 feet. The north aspect avoids sun shadows from glazing bars across the working plane.

The need to keep the whole floor area free led to the placing of such accommodation as staff and operatives' cloaks and lavatories, works supervision and administrative offices, small part and light stores in the spaces, and in tiers of galleries stacked as independent and readily-augmented decks, between the main structural arch ribs. Staircases and lifts serve these galleries, while some of the lifts carry on up to the roof structure and the network of service catwalks to lighting units and the cranage system 75 feet above the

The principal ancillary units the administration and works canteen and staff dining-rooms blocks

10, Elevated galleries-offices and light stores. 11, Gardened and terraced cutting. 12, Linkway to ed staff link to dining-rooms. 14, Operatives' link to canteen. 15, Upper part of operatives' canteen. 16, Staff gallery access to dining-rooms over 15. 17, Upper 1 service. 18, Roof over bulk stores. 19, Service yard. 21, Lagoon-canteen garden. R, Reception hall—visitors. A, Administrative block (first floor shown). 23, Conference room and view balcony. B.H., boiler house. At the top of the page is a section showing the arrangement of the heating system. 6, Workshops 3, Flight shed bay (3x, future extension). 4, Folding doors. 5, Shop lavatories. 2, Final assembly bay (2x, future extension). and stores. 7, Goods approach and access. 8, Lower ground floor compound. 9, Lift. 13, Elevated staff link to dining-rooms. 14, Operatives' link to canteen. 1, Fabrication and sub-assembly bay. part of kitchen and service. 22, General offices. 23, Confe airfield.

A I R C R A F T ASSEMBLY HALL

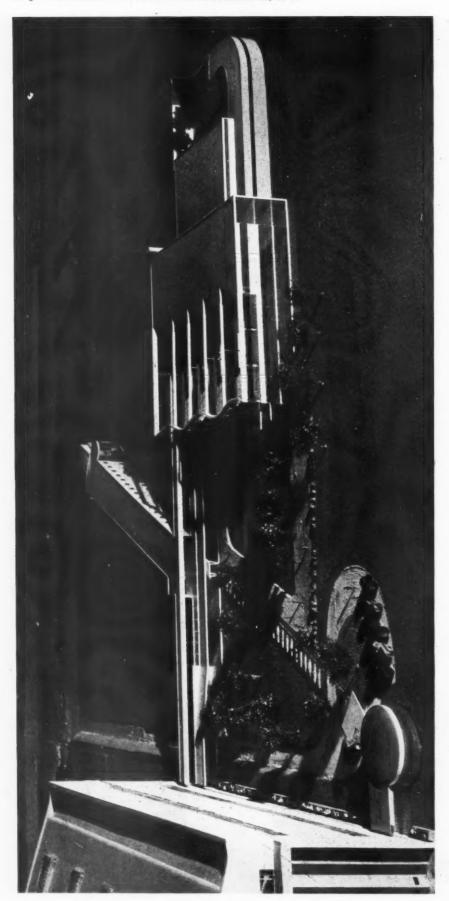
—are planned as independent units linked to the Hall on the east side. Initially there will not be a separate administration building at all, the whole staff being accommodated within the Hall.

CONSTRUCTION - A bridgebuilding design for giant spans has been adopted and developed for the steel skeleton, which consists of main steel trusses, or arch ribs, spaced at 50 foot centres in the depth of the bays, which are in the form of two pin arches tied at the haunches. The arches span the bays at 345 feet centres, rise 82 feet to eaves and thence to apex 117 feet above the floor. A great economy in floor area is effected by nesting the vertical legs of the centre-bay trusses within those of the outer bays, where these come together. The whole of the external enclosing walls are of prefabricated asbestos cement panels, while the roof is of steel decking with a monolithic impervious covering. The whole of the cladding and roof is lined with an insulating membrane. The main arch ribs have foundations of concrete blocks, the largest of which is 50 feet by 30 feet by 9 feet deep.

HEATING AND VENTILATION—The conditions were ideal for the use of modified unit heaters feeding high-level and overhead high-velocity projection nozzles in combination with controlled fresh-air intakes along the east and west walls of the Hall. Mounted 10 feet above floor level, at the foot of each of the 42 legs to the main arch ribs, or stanchions, and facing into the bay, is a unit heater incorporating a set of three fan impellers. The air is drawn in at low level, is preheated as required, and flows upwards through three separate sections of a vertical duct



Left, general view of model from the south-east. Above, the structural skeleton.



A I R C R A F T ASSEMBLY HALL

clipped to the stanchion face, being discharged 60 feet above floor level through three highvelocity projection nozzles. The streamline discharge of air from each of these 214 nozzles of the system can be controlled in its direction and rate of flow. In addition, a further 22 groups, of four nozzle projectors each, are mounted overhead on the haunch ties 75 feet above floor level. One of the functions of these overhead groups of nozzles is that of redistributing the warm air which would otherwise tend to rise right out of the low-level working stratum to be wastefully dissipated in the roof.

The steam feed to the unit heaters is supplied from a separate boiler house. The fully automatic boilers are oil-fired on the pressure jet system.

LIGHTING — Although the mounting height of 75 feet is exceptional, very little more wattage is called for than would be required if this height were 20 feet, because the length and width of the Hall are in proportion to its height. The height of mounting of the lamps makes possible the efficient use of high-wattage lamps, without glare and risk of eye strain. It also facilitates the installation of a mixed system of mercury-vapour and tungsten lamps.

The lamp groups are mounted on the overhead 75 feet high catwalk network, in rows 50 feet apart. End loss in illumination at the completely glazed north end is overcome by a continuous row of fluorescent tubes mounted at the window soffit, 15 feet above floor.



Left, the ancillary units, which are grouped about a garden with a lagoon on to which the canteen opens. Staff dining rooms, at roof level, open on to terraces, which overlook the airfield. The visitors' reception hall is the circular building on the left. Above, the port bay.

BEACHLAN

shore, owing to its broad stretch of



PRIZE S

A.R.I.B.A., and C. Malcolm Vine, £200. R. Owen Vine, A.R.I.B.A., London. Carlton Crescent, Third Prize-£50: S. C. Hurst, L.R.I.B.A., P.A.S.I., 31, Kersley Street, London, S.W.11. Southampton. Calton, 32,

Dr. H. V. Lanchester, D.Litt., F.R.I.B.A., the Assessor of the Hayling Beachlands Competition, promoted by the Havant and

reached by a very large proportion of the competitors must be a source of gratification to the promoters of the competition. More than Dr. Lanchester, the assessor, in his report, says: After a careful I feel that the high standard review of the 40 designs submitted

A.R.I.B.A., Tudor Chambers, Sta-

Second Prize-£100: H. Collins, F.R.I.B.A., M.T.P.I., and J. N.

has made his awards as follows: First Prize-£200: R. Owen Vine, A.R.I.B.A., and C. Malcolm Vine, tion Road, Wood Green, London,

Waterloo Urban District Council,

of the various objectives indicated in the programme it has not been half the designs show definite the artistic presentation of many easy to assess the relative merits of that dominant importance must be given to the exceptionally good facilities for sea and sunbathing offered by the Hayling Island foremerits of one type or another and In view the designs, but it seemed obvious of these is outstanding.

third to design No. 13. Designs Nos. 17 (D. K. Graham-Cumming the 2nd to design No. 4, and the (Leslie T. Channing) approach very nearly to the premiated ones in quality and must be highly com-Taking this view I have awarded Bertram, AA.R.I.B.A.) and 38 sand and its protected position. the 1st premium to design No. 18. and Robert Ashton, AA.R.I.B.A.). and S. 32 (Colin Dixon mended.

F

n face, above high-The from of the In oups, of ch, are haunch level. se overthat of r which

ng stra-ssipated e eparate tomatic

se right

the is feet re watt-ould be 20 feet, vidth of n to its ounting ble the e lamps, of eye the insystem ungsten

nounted et high reet nination 50 feet north tinuous nounted

t above

hich are a lagoon
s. Staff
open on
e airfield.
I is the Above,

Z

[1] M

C

I



PRIZE

A.R.I.B.A., and £200. R. Owen Vine, Vine. A.R.I.B.A., London. Malcolm

ful consideration.

quieter and more cultural forms of thoroughfares leading to the Beacharrangement of simple units. The serving into the rear of recreation; having special regard to the contribution that the layout afford beyond the site towards the north, vistas should be maintained along all the principal lands; with the intent of mainthe fine views out to sea from any position along the ment of any structures generally should run from north to south. The embodiment of these points in the design has given a planbeach huts form a major element in the layout. These are approached by a 12 ft.wide subsidiary front, the line of major developtaining could the arrangement of the plan a the development should be graded from the purely physical to the Messrs. Vine and Vine, the winners, in their report, state that in these were that simple and direct in both interim and final stages of the scheme; in addition to proper emphasis upon the pleasure needs of the visitor, due regard should be paid to the continued mum number of beach huts, suitably sited and equipped, should the basis of the scheme; number of points were given care-Summarized, cohesion of plan should be achieved of amenities by the permanent resident; the maxicirculations should be maintained

enjoyment

form

and golf By this arrangement, the beach the V-shaped beach hut units. hut unit forms a repetitive element through the entire design, leaving centre of the scheme has been permitting of clear uninterrupted but to visitors in other parts of the development towards the norand course, tea gardens, putting greens, and in the open air theatre, the main planned opposite Staunton Avenue, beach bays 250 ft. across, and conwhere the axis of this thoroughviews, not only to the hut renters. fare is carried through to thern boundary of the site Thus, from the sea may be viewed and enjoyed. tinuously beyond.

way through to the broad terrace with formal gardens and space for drawing-in of cars. Shops, in the form of blocks, running north vistas through), have been planned across point, the main façade has been the broad approach and offer first the open-air swimming pool, café and restaurant, bandstand, sun decks, dance area and children's set back from Sea Front Road, and gardens, serving in their turn, A secondary centre, comprising theatre, open-air theatre, orchestral shell, café and shops, has been planned at the Seagrove Avenue extension juncservice to the visitor on (affording south play centre.

tion with Sea Front Road.

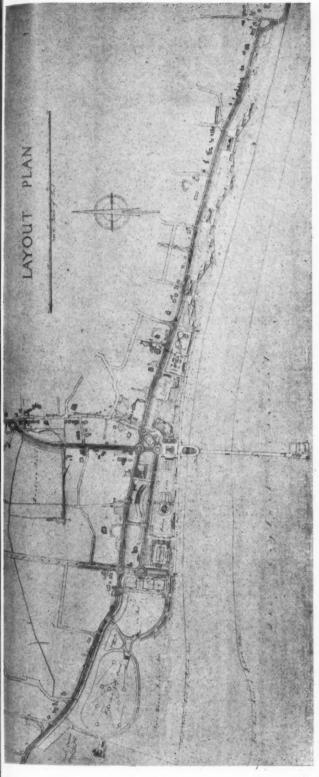
foreshore development.

.11 0 11

form the basis of the scheme; the development should be graded from the purely physical to the

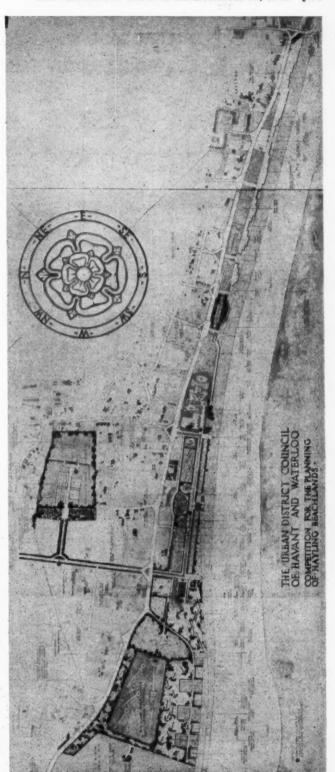
in the layout. These are ap- where the axis of this thorough- shops, has been planned at the proached by a 12 ft.wide subsidiary fare is carried through to the Seagrove Avenue extension junctional serving into the rear of foreshore development. At this tion with Sea Front Road.

2nd PRIZE and J. N. Calton, Southampton. H. Collins. £100. H. Collins, F.R.I.B.A., M.T.P.I.



3rd PRIZE

£50. S. C. Hurst, L.R.I.B.A., P.A.S.I.,



INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

PHYSICAL PLANNING

Planning in England

RECENT TOWN PLANNING IN ENGLAND. (Architects' Journal Physical Planning (Architects' Journal Physical Planning Supplements: March 7, 1946: pp. 195-198; April 11, 1946: pp. 287-291; May 9, 1946: pp. 359-362; June 13, 1946: pp. 449-452; June 27, 1946: pp. 483-486; August 22, 1946: pp. 133-137; August 29, 1946: pp. 153-156; October 3, 1946: pp. 241-244; October 31, 1946: pp. 313-318; November 7, 1946: pp. 331-333.) Plan for Exeter. Knutsford redevelopment for Exeter. Knutsford redevelopment experiment. New plan for Birkenhead. Survey and proposals for Worcester. Redevelopment and reconstruction proposals for City of Liverpool. Outproposals for City of Liverpool. Outline plan for Guildford. Plan for Sudbury and District. Redevelopment plan for Chester. Plan for City and County of Kingston-upon-Hull. Redevelopment plan for Windsor. Illustrated reviews and summaries of various planning reports.

various planning reports.

EXETER. Review of Exeter Phanix: A
Plan for Rebuilding, Thomas Sharp. (Architectural Press, 1946, 10s.). Historical planning background. Statistical surveys relating to population, industry and distributive trades. Outline of planning proposals, including preservation of historic buildings; creation of new internal by-pass to relieve city centre from incoming and through traffic; tidying-up and improvements of road communications outside city; solutions for rebuilding blitzed areas; landscaping of mediæval city walls; siting of industrial area.

KNUTSFORD. Experiment in redevelopment sponsored by News Chronicle in asso-ciation with Knutsford Urban District Council. Well-planned expansion of small country town based on ordered development of town as self-contained community. Replanning project to serve ultimate population

of 30,000 in order to cope with expected overflow from Manchester and other big industrial neighbours. Preservation of immediately surrounding countryside as protective green belt of farm and park-land. Reconstruction of two existing shopping streets in town centre with large parking area to serve Knutsford as well as surround ing country districts. Provision of new civic centre. Internal by-pass to keep shopping centre free from congestion. Removal of railway station to more convenient location. Expansion to proceed by stages and to include creation of industrial estate to employ 6,000 inhabitants; development of five new neighbourhoods around central area; provision of ring-road to encircle town centre at average distance of 4-mile to link neighbourhoods and industrial estate. Importance placed on

landscape treatment an outstanding feature of the plan.

BIRKENHEAD. Comprehensive long-BIRKENHEAD. Comprehensive long-term proposals for improvement and redevelopment prepared by Sir Charles Reilly and N. J. Aslan. Aspects covered include extensive rehousing scheme to eliminate overcrowding in central areas yet maintaining proximity to work; creation of new housing estates further afield to take over spill from central areas brought about by lowered densities; introduction of new industries of types unaffected by seasonable fluctuations and depressions to provide for more balanced local economy; improvements to civic and shopping centres; more efficient development of transport facilities; better distribution of open spaces within town area. Special section of Supplement devoted to explanation of hexagonal planning layout as prominent feature of central rehouspeople to be rehoused in three storey buildings at density of 100 persons per acre in fairly spacious and airy surroundings.

WORCESTER. Survey and proposals by W. Ritchie. General description of Worcester area, its economic environment, city pattern, economic potentialities, main road systems and waterways. Planning pro-posals include siting of factories in form of industrial estates adequately situated in relation to residential areas; replanning of residential areas based on neighbourhood units of not more than 200 acres and from 7,000 to 10,000 persons; provision of housing with

to 10,000 persons; provision of housing with due regard to population age, structure and size and types of families; grouping of all commercial and administrative buildings within central area in form of precincts; amenities and visual planning.

LIVERPOOL. Summary of First Report of Post-War Redevelopment Advisory (Special) Committee of City of Liverpool. Proposals dealing with basic road plan providing for inner, middle and outer ring roads, major radial roads and central area by-pass. Development of inner ring road by-pass. Development of inner ring road considered in great detail owing to necessity considered in great detail owing to necessity for speedy reconstruction of extensive war damage to city centre. Basic zoning proposals. Replanning of war-damaged areas under Town and Country Planning Act, 1944. Report criticised for lack of survey before plan and for omission of adequate presentation to enable general public to consider and discuss proposals.

GUILDFORD. Outline plan prepared by

GUILDFORD. Outline plan prepared by G. A. Jellicoe. Functions of Guildford within pattern of Greater London. Suggested population increase from 45,000 to 53,000. Policy to develop town as centre for culture, amenity and business to serve beyond confines of borough boundary. Light industry with commercial and pro-fessional offices to be encouraged, heavy industry to be discouraged. Zoning and road proposals. Five areas of Guildford to be developed as neighbourhoods with adequate communal facilities. Particular attention paid to development of arts, especially music. Provision of art gallery, museum music. Provision of art gallery, museum and open-air theatre. Protection of catheprecinct. Propolals for

recreation facilities. Carefully balanced landscape treatment.

SUDBURY. Plan for redevelopment of

town and surrounding countryside prepared by local Planning Association under K. Jeremiah as Planning Officer. Proposals based on sound survey carried out mainly by voluntary helpers. Rural area development based on pattern of village clusters with larger village forming centre of each cluster. Other suggestions include limited cluster. Other suggestions include limited population increase together with proposed return of some light industries to country-side; residential developments; improvement of transport facilities; redevelopment of town centre and riverside with provision for heliday centre nearby. Moulding of for holiday centre nearby. Moulding of proposals into statutory scheme depending on local council decision.

on local council decision.

CHESTER. Plan prepared by C. Greenwood, dealing mainly with proposals for redevelopment of old and overcrowded housing areas and for improvement of traffic congestion within city centre. Other points discussed include provision of adequate civic centre; increase of recreational facilities and open spaces; and preservation of Chester's many ancient buildings. tional facilities and open spaces; and preservation of Chester's many ancient buildings. KINGSTON-UPON-HULL. Plan for city and county prepared by Sir Edwin Lutyens and Sir Patrick Abercrombie acknowledging use of Civic Survey undertaken by Max Lock. Reconstruction proposals for extensively war-damaged port cover following aspects: provision of residential areas based on community planning; radical rebuilding of central areas requiring big reduction of population; overspill from central rehousing and its grouping into single satellite with industrial trading estate not dependent upon dockside; shopping centre planned as highly specialised precinct free from through traffic but adjacent to central traffic routes; in-dustrial expansion with due regard to loca-tion of offensive industries; riverside detion of offensive industries; riverside de-velopment to provide for extension of in-dustrial frontage; level crossings involving whole of central road and rail system; locawhole of central road and fall system; location of railway station; improvement of road system; provision of spacious civic centre; educational buildings closely related to community and open space planning; agriculture and green belt; and finally, air transport facilities

worth-Clewer area of Royal Borough of Windsor prepared by R. Hening and A. Chitty. Plan designed to fit in with regional planning arrangements and to conform in general with principles of Greater London Plan. Need for locating housing and schools. Road improvements to include reschools. Road improvements to include re-ception point for market garden produce. Proposals to develop river Thames amenities and open space facilities. Provision of new neighbourhood unit for some 10,000 persons based on principle of close of 30 to 60 houses with some blocks of three or four storey flats. Siting of new service industry. Public buildings. Importance of landscape treatment. treatment.

STRUCTURE

Steel Water Tank

ELEVATED TANK DESIGN SIMPLIFIED BY CONICAL BASE AND TUBULAR LEGS. (Engineering News-Record (USA), September 5, 1946, p. 309). Welded steel tank supported on tubular legs without bracing.

The article describes two elevated tanks, one with a capacity of 150,000 gal., with the high liquid level 103 ft. above the foundary gal, with the high liquid level 116 ft. above the foundations. The novelty of the design is the method of support on three or four



Painting by Anna Zinkeisen

This Present Age . . 10

Modern civilisation is a complex structure of human organisms in differing combinations, each contributing some indispensable function to the whole. As with every living thing it is subject to many diseases of known and unknown origin. The minds and genius of men must be dedicated to the total elimination of these through the greater study of humanity The foundations of a healthy social state can be laid on this basis by ensuring that the constitution is organically sound. It is a fundamental principle of democracy that all men are created equal, but it is also a law of nature that all are not equal in An appreciation of these

factors imposes a duty on the individual to contribute, to the limit of his powers, towards the well-being of the nation. Each citizen therefore, has a vital stake in the shaping of destinies that cannot be evaded, and must acquire the power to think and act with that characteristic honesty and independence which has imbued our nation throughout its great and glorious history. The maximum productive potential within our industry is desirable, but outside, it is the development of human personality as a dynamic force, which remains a personal obligation to procure the liberties and freedoms of progressive social reform.



nced t of ared r K. osals ainly elopsters each nited osed ntryrovement ision g of iding reenfor t of Other of creareserlings. tyens dging Max exexwing based lding n of using with upon raffic ; in-locade-f in-

locant of

civic

ning; y, air Ded-

h of

cional

m in

ondon

le re-

duce.

nities f new

ersons

to 60

four ustry.

scape

Tank

IFIED LEGS. JSA),

elded

tanks,

th the

unda-

above design

four

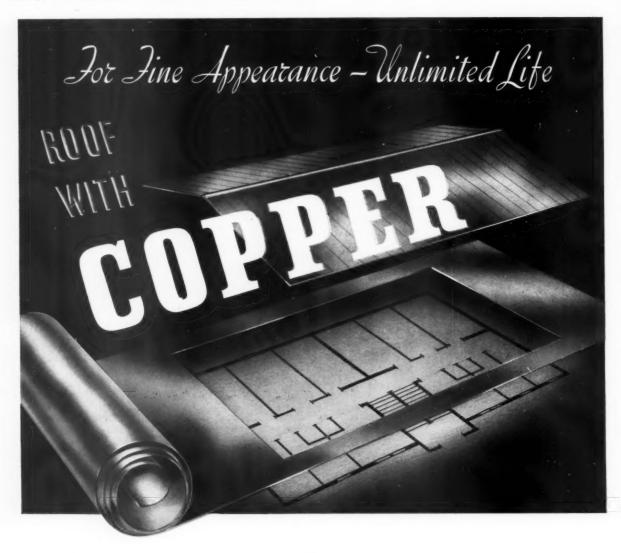
and

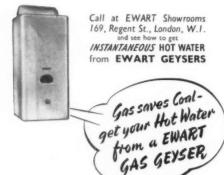
THE UNITED STEEL COMPANIES LIMITED

17, WESTBOURNE ROAD . SHEFFIELD 10

STEEL, PEECH & TOZER, SHEFFIELD SAMUEL FOX & CO. LTD., SHEFFIELD UNITED STRIP & BAR MILLS, SHEFFIELD APPLEBY - FRODINGHAM STEEL CO. LTD., SCUNTHORPE WORKINGTON IRON & STEEL CO., WORKINGTON UNITED COKE & CHEMICALS CO. LTD., CUMBERLAND

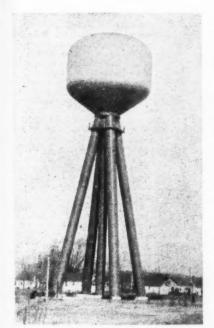
THE ROTHERVALE COLLIERIES, TREETON THE SHEFFIELD COAL CO. LTD., TREETON THOS. BUTLIN & CO., WELLINGBOROUGH





COPPER is the ideal roofing material. A Copper Roof is highly resistant to atmospheric conditions; protected by its beautiful "patina" it gives almost unlimited life; it is extremely fire-resistant and does not "creep"-expansion and contraction is so small that permanent welted and watertight joints are possible. For over a century Ewart have enjoyed a national reputation as the specialists in copper roofing-their experience includes the roofing of the most important buildings throughout the country.

EWART Specialists in Copper Roofing & Ventilation.



A USA elevated water tank supported on four tubular columns of w lded steel with a capacity of 250,000 galloms. See No. 2843.

tubular legs intersecting each other at the centroid of the wind forces on the tank so that all wind loads are carried by direct compression and tension. One of the columns is used for housing the ladder leading to the top. An access tube inside the tank extends from the top of this column up through the water, making it possible to reach the top of the tank without being on the outside surface.

Concrete Reservoir

PRECAST SECTIONAL WALLS AND ROOF ALLOW FOR UNEVEN RESERVOIR SETTLEMENT. (Engineering News-Record (USA), August 22, 1946, pp. 244-248). Articulated design utilizing precast concrete slabs for the walls and roof is expected to reduce cracking in a new 7,000,000 gal. rectangular reservoir constructed on the unstable soil of New Orleans, La.

MISCELLANEOUS

Draughtsmanship

DRAUGHTSMANSHIP. R. Frazer Reekie. (Edward Arnold & Co., 1946, 10s. 6d.) Introduction for beginners, and general reference work. Information on drawing equipment, line drawing, lettering, scale drawing, conventional symbols, reproduction methods, projection, rendering and freehand drawing. 197 pp. Fully illustrated.

Since architectural drawing is primarily only a means to an end, some degree of standardization is an obvious advantage. This is recognized in the book, and reference is made to available British Standards

having a bearing on the subject.

To illustrate a penknife and a roll of paper, as is done in the chapter on equipment, may seem unnecessarily elementary, but as the author states, the first essential

is to create an interest in the whole business of drawing. The author is, obviously, aware of the ignorance of the raw student.

There is much in the book to which the

more experienced student and even the accomplished draughtsman might wish to make casual reference, or upon which he would like to refresh his memory.

Style and presentation, so often stressed to the detriment of clarity, are regarded as the natural outcome of a proper mastery of the basis of the subject, and the student is warned against affectation. Incompetence is

too often hidden behind pastiche.

The book may confidently be recommended to the student starting an architectural career, and it would also be a useful reference in any architect's office.

Building Geometry

BUILDING GEOMETRY. W. J. Stone. (Longmans, 1946, 7s. 6d.) Textbook on Building Geometry (plane and solid) with problems and exercises, for building students. Up to S2 National Certificate standard. Some additional matter as introduction to S3 standard. 213 pages including definitions. diagrams.

Geometry, says the author, is a funda-mental tool in the hands of any student studying building, architecture, surveying, studying building, architecture, surveying, or engineering. Much of the beauty in say, the architecture of Ancient Greece, results from their methods of applying geometrical knowledge to architectural problems. One questions whether the beginner, for whom this book has been specially written, will be much encouraged in his studies by the examples given, or whether he will find any relation in them to the beauty of any period of architecture. This is, in fact, a somewhat dry textbook, but adequate to meet present examination requirements.

Roads

MEMORANDUM ON THE LAY-OUT AND CONSTRUCTION OF ROADS. Ministry of War Transport, Memorandum No. 575. (HMSO, 1943, reprinted 1946, 6d.) Important recommendations for lay-out and construction of highways. Illustrated

This memorandum deals with highways in the open country and those portions of urban areas where building development has not yet imposed serious restriction upon road planning. Useful data provided in connection with lay-out include: road widths; alignment; gradients; visibility; traffic lanes; junctions; pedestrian crossings; dual carriageways; lay-bys; parking places; service roads; and cycle tracks.

Aspects of road construction dealt with Aspects of road construction dealt with cover: carriageways; footpaths; kerbing; drainage; grass verges, and tree planting; fencing, hedges and guard rails; and siting of underground mains and services. Nine diagrams show typical designs of junctions excluding those controlled by traffic signals.

HEATINGand Ventilation

Domestic Heating

HEATING AND THE COMMUNITY A. C. Pallot. (Journal of the Royal Sanitary Institute, August, 1946. Vol. LXVI. p. 294.) Review of domestic heating practice in this country and of Egerton Report standards in light of national fuel position. Suggested methods of

improving heating standards based on use of MOW Heat Service Unit. Possibilities of district heating. Authoritative treatment of subject. illustrations.

Wall Linings

THE TRANSIENT WARMING OF ROOMS. M. V. Griffith, B.Sc., A.Inst.P. (Technical Report Y/T5. The British Electrical and Allied Industries Research Association, 8s. 0d.) Report on experiments to determine effect of wall lining materials on transient warming by high temperature electrical methods. Highly technical but conclusions of importance.

This is a technical report of experiments carried out on model scale (full scale confirmatory tests are proceeding). Conclusions are that reflecting surface finishes are only worthwhile over wall finishes of low only worthwhile over wall finishes of low thermal resistivity such as plaster. Their appearance is a further deterrent to use. Best results are obtained with a wall covering of high resistivity and low volume specific heat, but such coverings must be thick enough to prevent heat escaping into the base material during the time of heating environment.

ing envisaged.

2850

Radiant Heating

RADIANT HEATING SYSTEMS MEET WITH APPROVAL. (Plumbing and Heating Journal, August, 1946, p. 42.) Account of recent developments of radiant heating for domestic buildings in USA. Copper tube favoured for heating coils. Methods of installation. Popular rather than technical treat-ment. Photographs of recent installa-

QUESTIONS and Answers

 Γ^{HE} Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.I.

2851 Hardening Briquettes

Q Is it possible to treat the surface of a soft red facing briquette in order to harden it? We have received some briquettes intended for use in a fireplace and as facings to the jambs of an opening to be cut between 2 rooms. The briquettes are so soft that we fear they may not stand up to normal wear and tear which they will receive in such a position. We have in mind treating the surface with Sodium Silicate or boiled linseed oil, but do not know whether such a treatment is likely to meet with success. All that is required is meet with success. All that is required is sufficient hardening to prevent excessive wear from kicking and knocking with brooms, etc.

A We are afraid that there would be a possibility of Sodium Silicate causing fluorescence on the bricks, and while boiled

Linseed Oil would seal the pores of the brick against dust it would not harden them, and would also cause a certain amount of discoloration.

We suggest that you apply Magnesium Silicofluoride to the bricks, first trying this out on one to test the amount necessary to achieve the required hardness.



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.

BRF

Alfred Barnes

December 4 at a luncheon following the opening of the British Road Federation's Exhibition at the Tea Centre, 22, Lower Regent Street, S.W.1. SPEECH BY THE MINISTER OF TRANSPORT, the Rt. Hon. Alfred Barnes, M.P.

A. Barnes: Last May in the House of Commons I gave particulars of the Government's Ten-Year Plan for the Roads—a plan which I am glad to see has met with the full support of the British Road Federation. That plan provides for a large works programme of major improvements on existing roads, both in town and country areas, and the building of some 800 miles of motorways. During the next two years I intend to press on as rapidly as the resources of the country permit with the first stage of that plan, beginning with those schemes which can give the greatest help to industry, particularly in the Development Areas as well as those which will help to make highways safer for all classes of road users, not forgetting the 45 million pedestrians.

I propose in the New Year to invite tenders for preliminary work on the Severn Bridge, which will be the largest suspension bridge in Europe and a lasting monument to the skill of British engineers and workmen. How far the construction of this bridge will assist in the development of the industries of South Wales will be clear when I tell you that compared with the existing

route via Gloucester it will effect a saving in distance of 50 miles between Bristol and South Wales, of ten miles between South Wales and London, and in conjunction with its associated roads will provide a fast route between the Midlands and South Wales.

Another major scheme serving Development Areas is the proposed Jarrow Tunnel. The Bill giving the Durham and Northumberland Councils the necessary powers has now been passed and the Ministry of Transport is making a 75 per cent. grant towards the cost of this scheme.

During the first stage of the ten-year plan it is also proposed to resume some of the schemes which at the outbreak of war were either postponed or closed down. Among these is the lower Thames tunnel between Dartford and Purfleet. The pilot tunnel was constructed before the war, and I propose during the coming year to invite senders, on behalf of the joint committee of the Kent and Essex County Councils, in respect of the main tunnel. This tunnel will provide a most valuable link between the industrial areas north and south of the river.

Some of the pre-war schemes will have to be modified to fit in with the new pattern of our highway system. For example, it is now clear that the Maidenhead and Slough By-Passes, totalling about eleven miles in length, will eventually form part of the route from London—South Wales via the Severn Bridge, and plans are being re-cast accordingly.

Many sections of road which are heavily built-up should, as through traffic routes, be replaced by new roads to by-pass the existing built-up area. It is intended that where these sections of new road are of substantial length and circumstances are favourable and the free movement of through traffic so requires, they will be constructed as single-purpose roads to be reserved for the use of motor traffic only. Powers to enable this to be done will be sought.

Apart from this my Ministry is proceed-

Apart from this my Ministry is proceeding with the preliminary survey work for the purpose of determining the future lines of the principal trunk roads. Detailed location surveys for some 300 miles of route are now being carried out by the Ministry's staff as well as that of the local Highway Authorities on my helelf

start as well as that of the local Highway Authorities on my behalf.

You will be glad to know that special attention is being paid to the selection of lines of route that will avoid undue interference with the natural features of the country. A new road, provided it is so designed as to fit into the landscape, should be not an eyesore, but a thing of beauty opening up fresh views of the countryside. Judicious planting of trees and shrubs will not only increase the harmony between a road and its surroundings, but also, I hope, add materially to road safety. For example, I have it in mind that on curves, shrubs should be planted in the central reservation to screen drivers at night from the glare of headlamps.

I also propose, subject to the approval of Parliament, to put in hand during the later stage of the ten-year plan, a number of motor roads linking some of the main centres of population. The exclusion of slow-moving traffic from these selected routes would involve a drastic departure in highway legislation, but it would be to the benefit not only of fast motor traffic but also of pedestrian, cyclist and local motor traffic, which would be able, as a result, to use the existing roads with increased comfort and safety.

TDA

Research

The following notice on the objects of its new Constructional Research

DIRECTORATE has been issued by the Timber Development Association.

Broadly defining Constructional Research as a particular form of Utilization Research, the general objective of the Directorate is to promote and co-ordinate timber constructional research and development, to elaborate design methods, and to formulate results for dissemination, with particular reference to forms and systems of construction and methods of utilization in which the physical and mechanical properties of timber are important. The means which will be adopted to achieve this objective can be classified under the following headings:

RESEARCH: (a) Industrial: A general survey of industrial problems in the timber-consuming industries. This is intended to point out the most profitable lines for scientific research, and will require close contact and collaboration with the design production and sales personnel of the marketing and consuming industries.

roduction and sales personnel of the marketing and consuming industries.

(b) Scientific: The initiation and direction of research in national, university, industrial and private laboratories. The collation and interpretation of results obtained in this country and abroad. Maintenance of relations with the department of Scientific and Industrial Research and the Forest Products Laboratories of the United States and Dominions. Liaison with research and development associations of allied industries, both in this country and abroad.

DEVELOPMENT: Experimental application of the data obtained through 1 (a) and (b) above. Collaboration with, or employment of research laboratories or industrial organizations in the use of new materials, methods of construction, production and technique. Experimental construction. Analyses of comparative costs; reference to the development of time and motion studies. DESIGN: The elaboration of analytical

DESIGN: The elaboration of analytical design methods appropriate to timber. The compilation and tabulation of design data. The review of traditional methods of construction in the light of modern developments, and preparation of new designs for structures, assemblies and components, based on the results of 1 and 2 above. Designs for new uses of timber.

EDUCATIONAL: Publication of the results of Research, Development and Design, by means of textbooks, structural handbooks, leaflets, information and data sheets; papers to scientific and professional institutions; lectures to universities, technical colleges, institutions, etc., films.

STANDARDS: Services to committees of British Standards Institution, Codes of Practice, professional institutions, building and engineering councils, etc.

ADVISORY SERVICES: General assistance on all matters of timber utilisation, to engineers, architects, builders, etc., Government departments, local authorities and industrial organizations. The preparation of special designs on request, upon terms agreed in relation to the general policy of the Association.

RIBA

Released Members

The following members have notified the RIBA that they have been released from the Services and are resuming practice and would like to receive trade catalogues, information sheets and other data.

L. W. M. Alexander (A), Messrs. Harris & Hobson, 10, Water Street, Liverpool; H. Austin Barton (A) (late Lt.-Col., R.E.), 2B. Princess Street, Camberley, Surrey; Robert W. Brough (L) (late Lt., R.N.V.R.), Messrs.

search search, rate is r connt. to mulate ticular nstrucwhich ties of which ve can dings: general imberded to for close design marrection

the

ustrial n and n this f relathis ientific Forest States h and astries, pplicaa) and nploy-ustrial

Rediffusion.

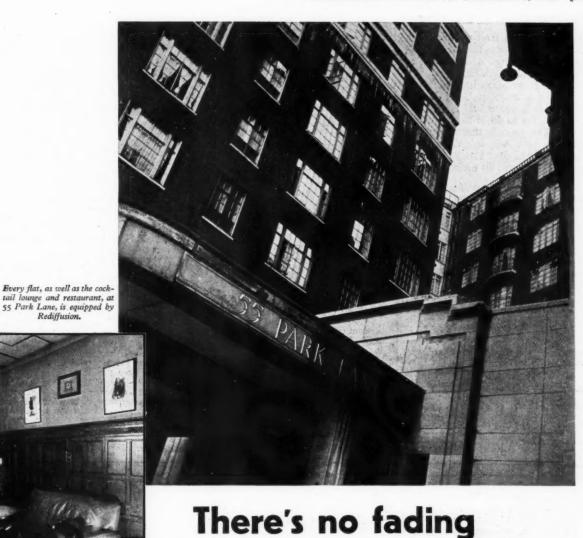
terials. and action. nce to tudies. lytical The data. f convelopns for nents.

he reesign, hand-heets; nstituhnical ees of Prac-

g and assiston, to overnnd inon of terms

ers tified eased ming trade and

rris & l; H. lobert lessrs.



HERE!

THE best radio listening facilities are I found in homes where radio engineer and architect have co-operated fully from the moment that the first plans were made.

With this co-operation the radio engineer can arrange the direct relay of programmes by wire from the studio to the home-the architect making arrangements for wiring and building-in the very simple equipment. Only a loudspeaker with volume control and switch are required for direct wire reception.

All the luxury flats at 55 Park Lane, London, have this modern method of radio reception installed Reception is also available in the residents' private restaurant, and the cocktail bar. At the touch of a switch, perfect radio reception is available, without fading, distortion or interference. Rediffusion have also installed, and maintain, a television aerial, which is available to residents who require this service.

Architects who are interested in the details of this Rediffusion service should contact our London office during the

early stages of planning, in order to ensure full co-operation.

REDIFFUSION operates in the following towns:

B.R.S.

Bangor (Co. Down), Bargoed, Barrow, Beeston, Blackfool, Bristol, Broadstairs, Caerphilly, Darlington, Exeter, Fleetwood, Gateshead, Gosforth, Hebburn, Hull, Jarrow, Kendal, Lancaster, London,* Maidstone, Margate, Merthyr, Morecambe, Newcastle, Newfort (Mon.), North and South Shields, Nottingham, Plymouth, Prestwich, Pontyfridd, Ramsgate, Rhondda Valley, Rochdale, Rotherham, St. Helens, Saltash, Stretford, Sunderland, Swansea, Wallasey, Wallsend, Whitley Bay, Wolverhampton Also in Malta and Trinidad. *Special service to flats and hotels.

MANY ARCHITECTS WHO ARE NOW RETURNING

to practice from their wartime jobs are anxious to obtain the latest information regarding a number of building products and services. We print the form below in response to a number of requests . . . it will save you time and trouble.

All you have to do is to fill in the names of the manufacturers in whose products you are interested and post the form to "The Architects' Journal"—we will do the rest.

m	ei	ut.	8	0	LD.	De	a	ri	12.5	,	i	8	ie t	hi	ol	lo	35	in	g e	0	nd of	ve	rt	is T	e- he
A	re	ch	ite	ec	ts	,	J	ou	r	ra	l.	99													
			•																						
	•														۰			0		0					
													0												
			•						0										0						
	•																								•
						•								•			0		•						
P	le	ash	ie er	P	a	sk	ic	tul	he	3	te	mo	un:	uj -	fa	ct	ш	rei	rs		to)	S	eı	nd
N	A	M	E	,																					

ADDRESS

M. Rainsford, Fletcher & Partners, 13, Ambrose Place, Worthing; D. Stratton Davis (A), Messrs. Stratton Davis & Yates, 12, Queen Street, Gloucester; A. H. Dawes Dingle (L) (late Capt., R.E.), 74, Ferryhill Road, Aberdeen; S. R. Edwards (L), 6. Princess Square, Plymouth; John Fisher (Student) (late Major, R.A.), "The Homestead," 33, Ruddington Lane, South Wilford, Nottingham; S. H. Fisk (L), Messrs. Fisk, Burley & Fisk, 16, King Street, Cheapside, E.C.2; M. Rainsford Fletcher (L) (late Capt., R.E.), 13, Ambrose Place, Worthing (Worthing 1125); H. J. Grose (A), 1, Marlborough Mansions, Cannon Hill, N.W.6; H. J. Hitch (A) (late Ft./Lt., R.A.F.), Colburn House, St. George's Place, York; C. J. Jerram (A) (late Lieut., R.N.V.R.), 25, Meadway, Gidea Park, Essex; G. Ray (A) (late Major, R.E.), County Architects' Department, County Offices, Haverfordwest, Pembrokeshire; Frank Risdon (A), 122, Barnfield Wood Road, Beckenham, Kent; Keith P. Roberts (L) (late Major, R.E.), 9, George Street West, Luton, Beds.; Douglas Smith (A), 10, The Crescent, Northampton, Kenneth A. Stevens (A) (late Major, R.E.), "Brindle Bank," Third Acre Rise, Oxford; W. F. Stewart (A) (late Capt., R.E.), "Parkside," Beaconsfield, Bucks.; E. Clough Tasker (F), Falconer Chambers, Huntries Row, Scarborough; L. Tattersfield (L) (late R.E.), 26, Temple Street, Aylesbury (Aylesbury 819); H. Wylie (A), 29, Barnton Gardens, Davidson's Mains, Edinburgh, 4.

Announcements

Mr. A. Wilson Kneale, M.Inst.R.A., L.R.I.B.A., is now in practice at 2, Abingdon Road, Bramhall, Stockport, Cheshire, and would be glad to receive all trade catalogues. Messrs. Ronuk, Ltd., of Portslade, Sussex, celebrated their fiftieth birthday by a holiday to the staff, tea and entertainment in the Corn Exchange, Brighton, and the publication of an illustrated souvenir jubilee booklet. During the tea a telegram was read from the King, in reply to a loyal message, in which his Majesty said he recalled with pleasure a visit to the works in 1924, and wished the company a prosperous future.

Mr. Frederick Adkins, A.R.I.B.A., has recently acquired the practice of the late A. Percival Starkey at Harrow, and is continuing to practice at Westminster Bank Chambers, Station Road, Harrow-on-the-Hill (telephone: Harrow 3716-7). He will be glad to receive technical trade data at that address.

Mr. W. M. Woodhouse, M.A., A.R.I.B.A., has accepted an appointment in the Colonial Office as Building Research Adviser to the Comptroller for Development in the West Indies. He expects to leave this country in January, 1947.

Fedoro Limited opened new depots at Ferodo House, 84/90, Hanover Street, Edinburgh, and Ferodo House, 67, St. Matthew Street, Ipswich, on December 2. Mr. W. S. Mowat, Depot Manager at Aberdeen for the past 23 years, has been appointed Manager of the new depot at Edinburgh. The Manager at Ipswich is Mr. E. C. Berry, now returned from service in the Royal Navy. Mr. Mowat has been succeeded at Aberdeen by Mr. W. H. Wyse who has recently rejoined the company on release from the Army.

The Minister of Works has agreed to release Major-General K. C. Appleyard from his appointment as Adviser on Regional Organisation. He was lent by the Army in 1941 to be Director of Emergency Works and later Director of Opencast Coal Production in the Ministry of Works, and is now returning to civil life.



A.J. 12.12.46

the new leather plastic flooring

Ritzide is a jointless flooring with a high bituminous content and as a result is unusually resilient. Luxurious in appearance, Ritzide Flooring is particularly indicated where exceptionally severe conditions of wear are to be expected — in factories, public buildings, licensed premises, cinemas, private dwellings. Ritzide is fire-proof and damp-proof; self-polishing; non-cracking and non-slip.

Available in a wide range of attractive designs and colours. Ritzide offers the architect the most modern and effective expression of flooring to conform with the new plastic age.

Samples and Prices sent gladly on request.

Ritzide the PLASTIC FLOOR of the future

Leatherflor Ltd., Finsbury Pavement House, 120 Moorgate, London, E.C.2. Phone: MONARCH 1155

Works: Inch Mill, Arbroath, Angus, Scotland.

Craftsmanship Lives Anew in

FINE TIMBER



oliin bliilee was

yal rein ous has late onank

thewill at has nial the

est in

oots

St. 2. ber-

ap-

din-Mr.

in suc-

yse

rerom onal y in orks Pro-

GRINLING GIBBONS

(1648 - 1721)

Wood carver and statuary. He specialised in carving pendant groups and festoons of flowers, fruit, game and other ornaments, life-sized and carefully copied from nature. The choir stalls in St. Paul's Cathedral are bis work.

The owners of the great 17th and 18th century mansions recognised in fine timbers the most expressive medium to crystallise the work and genius of great craftsmen.

The craftsmen and designers of to-day have the advantage of being able to call on many other allied materials and services—veneers from all over the world, water resistant plywood (flat, shaped or metal faced), kiln drying, fireproofing, and various other modern achievements.



The Council Room of the London Champer of Commerce.

Architects: Gunton and Gunton, F.F.R.I.B.A. Contractors: F. G. Minter Lia.

Furniture designed and made by:

Beresford & Hicks.

WILLIAM MALLINSON & SONS LTD

TIMBER AND VENEER MERCHANTS AND PANEL MANUFACTURERS

130-150 HACKNEY ROAD · LONDON · E 2

TELEPHONE . BISHOPS GATE: 1234

TELEGRAMS . "ALMONER" LONDON



COPPER BOILERS CYLINDERS CALDRIFIERS

For fifty years we have been specialising in the manufacture of domestic water-heating apparatus and during this period have been privileged to supply most of the Plumbers and Builders' Merchants in Great Britain. Hundreds of thousands of our boilers, cylinders and "FORTIC" tanks are in use in many housing estates and giving excellent service.

Supplies are obtainable through Plumbers and Builders' Merchants.



FOR VILLAS, BUNGALOWS & FLATS

The Triangular Type Hot-Water Supply Tank ONE TANK INSTEAD OF TWO.



This "RANGE BOILER" Speciality has been expressly designed and made to provide the combined functions of tank and cylinder and is specially suitable for Villas. Bungalows, Flats, where space is restricted.



RANGE BOILERS LTD.

SOLE MANUFACTURERS OF THE FORTIC PATENT TANK

STALYBRIDGE, CHESHIRE



MACKS ROAD, BERMONDSEY, LONDON, S.E.I6

Telephone: BERmondsey 1151 Telegrams: AQUOL, PHONE, LONDON



SUPPLIES TEMPORARILY RESTRICTED OWING TO LABOUR DIFFICULTIES



Being made entirely of copper and a mineral insulant "Pyrotenax" M.I.C.C. cables are, for all practical purposes, indestructible and everlasting.

Once installed they require no maintenance or renewal. Installation too, is simple; any form of saddle or clamping device, widely spaced, holds them in position. Their tough copper sheath keeps their mineral insulant intact, even when subjected to the grossest ill-usage. By the same token they cannot be damaged by oil, water or condensation and being inorganic they are inherently fire resistant.

The illustration shows the "Pyrotenax" installation of Control Cables in the tunnel to the Switch House at the I.C.I. Metals Ltd., Kynoch Works. Note that no conduits are used.

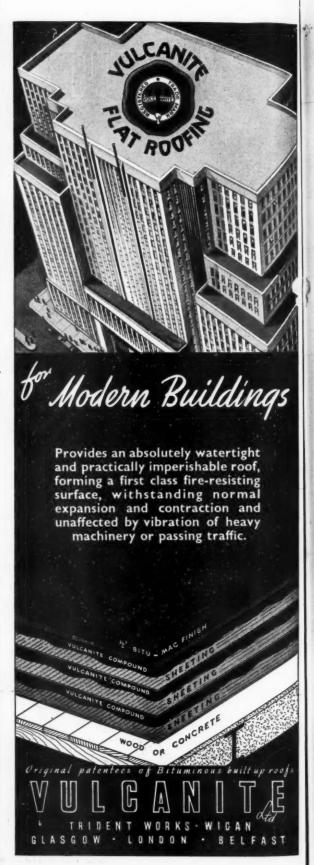
FIRE RESISTANT & UNAFFECTED,
BY OIL, WATER, CONDENSATION,
ACCIDENTAL OVERLOAD OR GROSS
FULLUSAGE * EASY TO INSTAL *



"Pyrotenax" is an exclusive trade mark name and must only be used to designate cables and other products manufactured by this Company and its associates.

PYROTENAX LIMITED, HEBBURN, CO. DURHAM.
'Phone: Hebburn 32244/5

LONDON OFFICE: 7, Victoria St., S.W.1. 'Phone: Abbey 1654 BIRMINGHAM OFFICE: 2, Moor Street. 'Phone: Midland 1265





Restoring War Damaged Stained Glass Windows

Stained glass is one of the most beautiful forms of ecclesiastical decoration. Unfortunately many fine windows have been injured during the war and only the labour of very experienced craftsmen can adequately restore them to their former glory. The artists and craftsmen of the William Morris Company, although primarily engaged on new work, take special pride in the highly skilled task of restoration.

William Morris

and Company

(Westminster) Ltd.

HOPE HOUSE, GT. PETER ST., WESTMINSTER, S.W.I

Telephone: Abbey 2393. Telegrams: Morrisinger, Walt, London

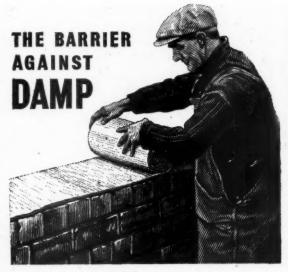


THERE IS NO KNOWN METHOD WHEREBY TRINIDAD LAKE ASPHALT CAN BE ARTIFICIALLY PRODUCED it is STANDARDISED BY NATURE

THE LIMMER & TRINIDAD LAKE ASPHALT COLTO

STEEL HOUSE, TOTHILL ST., WESTMINSTER, S.W.1. Telephone: WHITEHALL 6776





AQUIAILITIE BITUMEN DAMPCOURSE

WILLIAM BRIGGS & SONS, LTD., DUNDEE AND LONDON

Branches throughout the Country



SPRAY PLASTICS TO ANY THICKNESS



SCHURI METALLISING PROCESS LTD., BRENT CRESCENT, NORTH CIRCULAR ROAD, LUNDON N.W.IV. Telephone: ELGAR 7393

In 1939 it was a piece of farmland with ditches and hedge-rows, hillocks and coppices. Then the needs of war demanded landing grounds. Hills were

MIS

levelled, trees felled and long straight strips of concrete stretched across a new sown plain of grass. Airfield construction is one type of Dowsett Engineering Construction job. Others include tunnelling, dock, factory, railway and harbour construction, opencast mining and dredging. All categories of civil engineering and building work are within Dowsett scope.



became an AIRFIELD

DOWSETT

ENGINEERING CONSTRUCTION LTD

TALLINGTON . LINCOLNSHIRE

Telephone: Peterborough 4051

A L S O A T NEW CASTLE Telephone: New castle 21626 London Office: LION HOUSE RICHMOND S U R R E Y Telephone: Richmond 4801

One of the DOWSETT group of companies.



quett



Toiletiquette by Homacol mean the provision in all building plan of those neat "Staybrite" Stain less steel and glass Liquid Soap Dispensers which give distinction to the modern washroom. Their drop-by-drop service provides a fresh supply of uncontaminated soap for every user, thus ensuring cleanliness and efficiency without waste or mess. Picneers of the Liquid Soap System, Homacol stands first in the field today.

Write for full particulars to:

Horton Manufacturing Co. Ltd., RICKMANSWORTH - HERTS. ne: Rickmansworth 3191

BY THE

* 8 SHADES: ALL SIZES

HOMACOL

SOAP SYSTEM



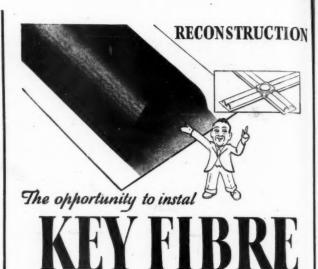
THE "1-COAT" TRANSPARENT PENETRATING, PERMANENT PRESERVATIVE STAIN FOR ALL NEW WOODWORK.

It cannot raise the grain.

ADVISORY SERVICE

Shade cards, panels, full directions and working instructions for contractors' use, estimates and 45 years of specialists' experience are at your service.

RONUK Ltd., Portslade, Sussex Polishing 16 South Molton Street
Contract Depot London, W.I



UNDERFLOOR

used extensively in the most modern office buildings, service flats and factory premises, Key Fibre Ducts provide for all present and future wiring requirements. Designed for maximum flexibility, Key Fibre Ducts can be tapped where and when required, at any time during the life of the building. Key Fibre is non-condensing and non-corrodible.

ENGINEERING CO. LTD. 4 QUEEN VICTORIA ST., LONDON, E.C.4. Telephone : City 2235-6

TRAFFORD PARK; MANCHESTER Trafford Park 1903



Pumping Equipment

Clillord PUMPS

NEW TYPE ACTION provides COMPACT PUMPING EFFICIENCY for most domestic, industrial and agricultural purposes.

PAT. No. 558373.



CUFFORD HAND PUMP. For small houses gardens, stock vards, etc.



CLIFFORD ENGINE PUMP. A simple efficient unit for use where electric power is not available.



CLIFFORD ELECTRIC PUMP. Clifford Power Pumps deliver 500/700 gallons per hour with a normal lift.

Sole Patentees and Manufacturers :

CLIFFORD AERO & AUTO LTD., Spring Road, Hall Green, Birmingham, II, England. Telephone: SPRingfield 1164



F. MCNEILL & CO. LTD., 10, Lower Grosvenor Place, London, S.W.I.

sag or crumple.

and refined bitumen, it will not

Telephone: Victoria 6022. Telegrams: Eyeball, London.



CTION

ildings, provide

ned for

where of the odible.

vill be

LTD

NCHESTER 903

ud

TION

ENCY nestic,

gricul-73.

LECTRIC

500/700 er with a

1164

'Phone: BATtersea 7464/5 & 6531.

and" Ace" Reinforced Roofing

Felts will be sent on request.

REPETITION METAL WORK STAMPINGS AND PRESSINGS . . PROFILE CUTTING ARC WELDING SHEET METAL WORK LIGHT CONSTRUCTIONAL ENGINEERING DRAWN SECTIONS IN ALL METALS, ETC.

TAYBRIDGE WORKS . BATTERSEA . S.W.II

wendow graving locks punic bolts door furniture ironmongery

Robert Adams' Door Springs and other patent building specialities are noteworthy for their reliability and efficiency



Send for full particulars to-

ROBERT ADAMS (VICTOR) LIMITED

139, STAINES ROAD, HOUNSLOW, MIDDX.

TELEPHONE: HOUNSLOW 5714



Perfect balance at any slope. Take any board. Ball-bearings. Perfect parallel movement.

No drawing office should be without "MAVITTA" Drafting Machines.



The nearest to perfection in drawing office equipment — "MAVITTA" DRAFTING MACHINES made of steel tube with adjustable ball-bearings. Main angles located automatically, intermediate angles by lock. Scales have inlaid celluloid edges and divided to order on two edges.

Write for particulars and prices.

MAVITTA

DRAFTING MACHINES LTD.

Anchor Works, Park Road, ASTON, BIRMINGHAM, 6

Tele EAST 0482

Telegrams: MAVITTA, Birmingham

MODELS

Our Model Department can now accept orders for architectural and engineering scale models

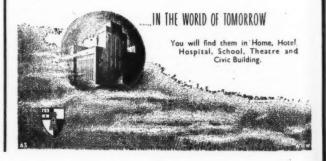
FINE CRAFTSMANSHIP, ACCURACY AND EFFICIENT SERVICE

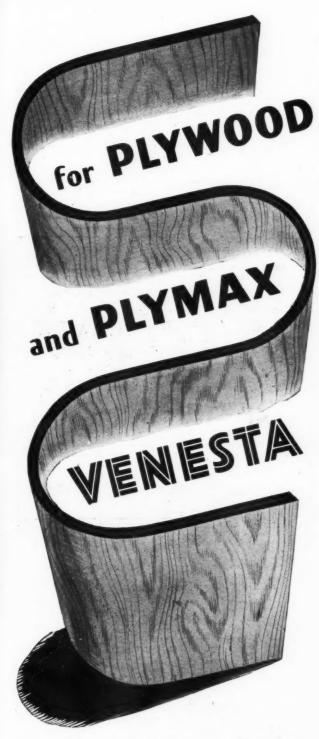
THE DESIGN GROUP LIMITED

COMMONWEALTH HOUSE, W.C.I. TELEPHONE: CHA. 6451 (10 LINES)



WINDSHIELDS of Worcester





ED

Venesta Birch plywood had an exceptional reputation before the war. For nearly fifty years it had a consistency and standard upon which architects and builders could rely. It was precisely graded to suit particular jobs. It was extraordinarily versatile. It will return as good as ever.

PLYMAX, THE METAL-FACED PLYWOOD IS AVAILABLE NOW

Do you remember these Venesta Plywood grades?
SPECNOT—SUMNOT—PLUGNOT—MORNOT—BIGNOT

VENESTA LIMITED · Vintry House · Queen Street Place · E.C.4
Telephone: Central 3060



DRYNAMELS

DRYFLEX

DURABLE GLOSS FINISH

Drynamels Specialist Service gives you "Tomorrow's Finish—Today"

DRYNAMELS LTD., SHAFTMOOR LANE, HALL GREEN, BIRMINGHAM 2. TELEPHONE: SPRINGFIELD 1161/2 T.B.W.



TOWER CLOCKS



RINGING PEALS · CHIMES · CARILLONS PUBLIC CLOCKS of all types

CROYDON, SURREY

Tel : Thornton Heath 3221 (5 lines)



Functionally perfect and perfectly simple, the FORDHAM is still ahead of its time. The shell is a seamless steel pressing, unbreakable, frostproof and rustproof, yet so light in weight that installation requires minimum Write to-day for full details.



FORDHAM PRESSINGS LIMITED, DUDLEY RD. WOLVERHAMPTON -PHONE : WOLVERHAMPTON 23861



. working with a minimum of friction on the famous BALDWIN hardened and polished knuckles, always keeping a high standard of efficiency throughout their very long life. Be sure to ask for them by name.

PRECISION MADE rising hinges

BALDWIN, SON & CO. LTD., Sto

onsult



W.& M.NEGUS, LTD., Station Works, KING JAMES ST., S.E.I. (WAT.5474.)



The registered Trade Mark on Ashley Electrical Accessories is a guarantee of reliability and of quality second to none.

It is regretted that supplies are still far short of customers' requirements, but output is being distributed in strict fairness to all.

As the raw material situation improves, delays and shortages will be eliminated.



Un Inaudible Lift is a testimony to Craftsmanship

One of our customers writes:

"The lift goes so quietly and smoothly that you do not even hear it -the results were nothing short of marvellous."

WM. WADSWORTH & SONS, LTD.,

BOLTON and LONDON.



CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion

n the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal,"

War Address: 45 The Avenue, Cheam,

Public and Official Announcements Six lines or under, 10s.; each additional line, 1s. 6d.

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

LONDON COUNTY COUNCIL.

Applications are invited for the following posi-(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:

for (a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council, War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (Junior).

(c) Working up, etc., in connection with domestic buildings and general working up (Junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL). AND JUNIOR DRAWING OFFICE ASSISTANTS. Required for:

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

hospitals.

(c) The preparation of estimates and specifical

(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.

(d) Assistants to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.

(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 65s. a week, plus cost-of-living addition.

perience, up to 65s. a week, plus cost-of-living addition.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for modern bot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Balary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

Ex-Service candidates with experience prior to their war service will be ensured to constitute to

Provident Fund.

Ex-Service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council. County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies.

947

COUNTY BOROUGH OF ROTHERHAM.

ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointment, in the Borough Engineer's Department:—
Architectural Assistant, at a commencing salary of £420 per annum, rising (subject to satisfactory service) to £465 per annum, plus cost-of-living bonus.

Applicants must be Associate Members of the Royal Institute of British Architects, and pre-ferably with experience in the service of a Local

Authority.

Applications, stating age, qualifications, and experience, accompanied by copies of recent testimonials, must be delivered to Vincent Turner, M.Inst. C.E., Borough Engineer, Rotherham, not later than 21st December, 1946.

The successful applicant will be required to pass medical examination and to accept the Council's Superannuation, Sick Pay and other Service Conditions.

JOHN S. WALL.

JOHN S. WALL, Town Clerk.

COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited from qualified persons for the temporary appointment of Architectural assistant (Grade C), in the Borough Engineer and Surveyor's Department.
Candidates must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification, and have general knowledge and experience of architectural work.
The salary will be in accordance with Grade C of the Council's Grading Scheme for official staff, i.e., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus war bonus, at present £59 lés, per annum, but the commencing salary may be increased according to the qualifications and experience of the persons appointed.
The Council have decided to apply the National Salary Scales, and the salary for this pcst Lay be subject to revision in the near future.
The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, in the Council's condition of service for temporary official staff in force from time to time, and the successful candidate will be required to pass a medical examination.
Applications, on the form obtainable from the undersigned, must be delivered to the Town Clerk, Canvassing in any form will disqualify.

H. A. EDWARDS,
Town Hall, East Ham, E.6.

Town Clerk. Town Hall, East Ham, E.6. 6th December, 1946.

6th December, 1946.

SPALDING RURAL DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a full-time TECHNICAL ASSISTANT, in the Architect's Department, at a commencing salary of £345 per annum, plus cost-of-living bonns (at present £59 16s.), rising on 1st April, 1947, to £390 per annum, plus bonus, when the appointment and salary will be in accordance with Grade III of the A.P.T. Division of the National Joint Council Scale, rising to a maximum of £435, plus bonus.

Candidates should have a sound and practical knowledge of architectural and quantity surveying work, and will be required to prepare Bills of Quantities, Estimates, valuations and settlement of accounts in connection with the Council's Housing schemes and to work under the direction of the Council's Architect and Building Surveyor.

Surveyor. The ap

Surveyor.

The appointment will be subject to the Local Government Superconnuction Act, 1937.

Applications stating age, qualifications, and experience, and earliest date on which duties could be commenced if appointed, together with copies of two recent testimonials, must reach the undersigned not later than 17th December, 1946.

L. FENNELL, Clerk to the Council. The Crescent, Spalding, Lines.

Amended Advertisement.
PLYMOUTH REGIONAL JOINT PLANNING APPOINTMENT OF SENIOR PLANNING

APPOINTMENT OF SENIOR PLANNING
ASSISTANT.
Applications are invited for the position of
Senior Planning Assistant. The salary will be
in accordance with Grade VI in the Administrative, Professional and Technical Division, with
a commencing salary of £535, rising to £600
per annum, plus bonus (at present £59 16s.),
together with a travelling allowance in accordance with the Devon County Council Scale.
Applicants should have passed the final examination of the Town Planning Institute, and
have had practical experience in the preparation
of planning schemes with a local authority or
Joint Committee, and be familiar with Interim
Development control, and preference will be given
to candidates who possess additional qualifications.

The person appointed will be required to devote the whole of his time to the services of the Joint Committee, and the appointment will be subtect to one month's notice on either side and to the provisions of the Local Government Superannuation Act. 1937. The successful candidate will be required to pass a medical examination. Applications in writing, stating are, qualifications and experience, accompanied by copies of two recent testimonials, should be forwarded to reach the undersigned not later than the 21st December, 1946.

PERCY T. LOOSEMORE Conneil Offices. Plympton, S. Devon.

COUNTY ROROUGH OF SOUTH SHIELDS.
APPOINTMENT OF CHIEF TOWN
PLANNING ASSISTANT.
Applications are invited for the above appointment. The salary attributable to the post is Grade V (£469-£15-£510), plus bonus. The post is superannuated.
Applications on forms to be obtained from the undersigned, should be returned not later than 10th January, 1947.

JOHN REID.

JOHN REID, Borough Engineer. Town Hall, South Shields. 26th November, 1946. ° 509 ESSEX EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART. FOREST ROAD,
WALTHAMSTOW.

AR £60 All

Ap ins fro Br W.

318

pr

Pr Pr Wh Pl

no Le

Applications are invited for a full-time permanent post of STUDIO MASTER AND LECTURER in Architectural Design and Technique or Presentation.

Salary in accordance with the Burnham Technical Scale (with London allowance), plus responsibility allowance of £100 per annum and increments for approved industrial or professional experience.

experience.

Applications by letter, giving full particulars of training, qualifications and experience, accompanied by copies of three testimonials, and the names of three referees, should reach the Acting Clerk to the Governors at the College not later than Saturday, 21st December, 1946.

B. E. LAWRENCE,

Chief Education Officer,

County Offices, Chelmsford.

THE POLYTECHNIC, 309, REGENT STREET, W.1.

THE POLYTECHNIC, 309, REGENT STREFT, W.1.

SCHOOL OF ARCHITECTURE, SURVEYING, AND BUILDING.

Applications are invited for the post of SENIOR ASSISTANT IN ARCHITECTURE. Candidates must be Fellows or Associates of the Royal Institute of British Architects, and should possess the degree or diploma of a recognized School of Architecture.

The salary scale commences at £600 per annum, rising by increments of £25 to a maximum of £750 per annum, plus a London allowance of £36-£48, and possibly an additional allowance for training, and is subject to the visual deduction of 5 per cent. for superannuation.

Further particulars and form of application may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

J. C., JONES,

Director of Education.

CITY OF LIVERPOOL.

ARCHITECTURAL AND HOUSING
DEPARTMENT.

The Council of the City of Liverpool invite applications from qualified persons for the following temporary positions, in the Architectural and Housing Department, at the salaries shown with the council of the council shown, viz.:—
(a) ONE ASSISTANT SURVEYOR.

tural and Housing Department, at the salars shown, viz.:—

(a) ONE ASSISTANT SURVEYOR. Salary £450, plus war bonus.

(b) ONE ASSISTANT ARCHITECT. Salary £450, plus bonus.

Applicants must be members of the Surveyors Institution or the Royal Institute of British Architects respectively, and professional experience, preferably in the local government service. Although the positions are classed as temporary it is probable that on continued satisfactory service the officers appointed will be absorbed into the permanent establishment of the Department at a later date, subject to the Standing Orders of the City Council.

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

Applications, on forms to be obtained from the City Architect and Director of Housing, Blacburn Chambers, Kingsway, Dale Street, Liverpool, 2, accompanied by copies of three recest testimonials, must be addressed to the City Architect and Director of Housing (endorsed with the description of the post applied for, e.g., "Assistant Surveyor"), and should be received on or before the 31st December, 1946.

Candidates serving in H.M. Forces abroad need not complete the official form of application, but may submit direct applications on or before the date specified, giving particulars of age, education, qualifications and experience, and three names as references. The number of the applicant's release group and probable date of release should also be stated.

Canvassing of members of the City Councileither directly or indirectly, will be a disqualification.

W. H. BAINES,

W. H. BAINES,

Liverpool, 2. November, 1946.

November, 1946.

SOUTH-EAST KENT JOINT PLANNING COMMITTEE.
APPOINTMENT OF DRAUGHTSMAN.
Applications are invited for the post of Draughtsman, at a salary in accordance with its National Scale, vis., General Divison, for persons aged 26 or under, and thereafter on the Micellaneous Division, Grade I or Grade II, vp to maximum of £360 p.a. (plus crst-of-livist bonus), according to qualifications and experience. The post is superannuable. The successful candidate will be appointed to the staff of the Kent County Council and seconded to the service of the Joint Committee at Ashford. Applicants should have had experience in the preparation of plans and maps in connection with town and country planning, and must be neat and creditions draughtsman. Applications, in our handwriting, and stating age, qualifications and experience, accompanied by copies of not most than three recent testimonials, should be received by me not later than 11th January. 1947.

J. SUDLOW.

Council Offices, "The Cedars," Church Road, Ashford, Kent.

December, 1946.

TEE. COLLEGE T ROAD. I-time per-ER AND sign and

Burnham annum and professional

particulars nce, accom-ls, and the the Acting e not later ion Officer.

STREET, RVEYING. Dost of sociates of itects, and oma of a

€600 to a maxi-don allow-onal allowthe vsual application Education.

SING pool invite for the Architec-ne salaries

Salary Surveyors'
of British
nal experint service.
temporary,
atisfactory
orbed into

ole by one ng, Black-eet, Liverree recent City Archi-I with the for, e.g., e received

proad need ation, but before the ge, educa-and three of release y Council.

ER non Clerk. NNING

MAN. e with the or persons the Misst-of-living experiencessful Applicants aration of town and and cr and cr

not more received Secretary.

Town Hall, Halifax. 25th November, 1946. 518

AUCKLAND UNIVERSITY COLLEGE,
AUCKLAND, NEW ZEALAND.
Applications are invited for a LECTURER IN
ARCHITECTURAL CONSTRUCTION. Salary
2690 (N.Z.), rising to £760 (N.Z.) per annum.
Allowance is made for travelling expenses.
Appointment is for three years in the first
instance. Further particulars may be obtained
from The Secretary, Universities Bureau of the
British Empire, 24, Gordon Square, London.
W.C.I. Closing date for receipt of applications to
18st January, 1947. 31st January, 1947.

MANSFIELD AND DISTRICT JOINT PLANNING COMMITTEE.

APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited for the position of Senior Planning Assistant (Male or Female), at a salary in accordance with Grade IV of the National Scale of Salaries, A.P.T. Division, commencing at £420 per annum and rising by annual increments of £15 to £465 per annum, plus costof-living bonus (at present £59 16s.), together with a travelling allowance, in accordance with the Nottinghamshire County Council's scale.

Applicants must have had experience in the preparation of planning proposals for urban and rural areas, the carrying out of Regional Planning Surveys and Interim Development control. Preference will be given to those applicants who are Associate Members of the Town Planning Institute, or hold a recognized qualification in Town and Country Planning.

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

the successful candidate will be required to pass a medical examination.

Applications, stating age, training, experience, qualifications and present occupation, accompanied by not more than three testimonials, should be sent in appropriately endorsed envelopes to J. H. Barratt, Esq., M.T.P.I., Chief Planning Officer, Regional Planning Office, 76, West Gate, Mansfield, Notts, not later than 31st December, 1946.

Applications from members of H.M. Forces are invited for this appointment.

A. C. SHEPHERD,

Clerk to the Joint Planning Committee.

Carr Bank, Mansfield, Notts.

975

COUNTY BOROUGH OF HALIFAX.
BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the following appointments, on the permanent staff:—
(1) PRINCIPAL ARCHITECT FOR SCHOOLS, at a salary of £575, rising to £650 per annum, in accordance with Grade VII (A.P.T. Division) of the National Scale.

accordance with Grade VII (A.P.T. Division) of the National Scale.

(2) ARCHITECTURAL ASSISTANT, at a salary of £420, rising to £465 per annum, in accordance with Grade IV (A.P.T. Division) of the National Scale.

(3) QUANTITY SURVEYOR, at a salary of £420, rising to £465 per annum, in accordance with Grade IV (A.P.T. Division) of the National Scale.

Scale.

(4) JUNIOR ARCHITECTURAL ASSISTANT, at a salary of £315, rising to £360 per annum, in accordance with Grade II (Miscellaneous Division) of the National Scale. Ccst-of-living benus, at present £59 16s. per annum, will be payable in respect of each appointment.

annum, will be payable in respect of each appointment.

Candidates for appointment

(1) will be responsible for the design and construction of new schools, alterations to existing schools, and for the carrying out of instructions issued through the Chief Education Officer in respect of the administration and maintenance of School Buildings. Candidates must be A.R.I.B.A. or hold equivalent qualifications, and have had experience in design of school buildings, and should be competent in architectural design. They must also be familiar with the Building Regulations of the Ministry of Education.

(2) should be fully trained architects, experienced in the preparation of plans, working drawings, details and specifications, and be capable of preparing estimates and making surveys and levelling. Preference will be given to those having experience in housing, and who hold a recognized Architectural qualification.

(3) must have had regular training as Quantity Surveyors, and have had considerable experience in the preparation of building quantities and settlement of accounts.

(4) should be trained Architects, capable of assisting in the preparation of schemes for and the supervision of architectural work. They must be nest draughtsmen, and a recognized architectural qualification will be considered an advantage.

The appointment will be subject to the con-

tectural qualification will be considered an advantage.

The appointment will be subject to the conditions of service adopted by the Corporation, and to the Local Government Superannuation Act. 1937.

The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, present position and salary, and experience, accompanied by copies of three recent testimonials, appropriately endorsed, should be delivered to the undersigned not later than Saturday, the 28th December, 1946.

W. USHER.

Tages Clerk.

W. USHER, Town Clerk.

THE RURAL DISTRICT COUNCIL OF GODSTONE.

ENGINEER AND SURVEYOR'S DEPART-MENT.

Applications are invited for the under-mentioned appointments:—
ONE ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade II, £350-£15-£495.
ONE ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade I, £330-£15-£375.
TWO ENGINEERING ASSISTANTS. Salary A.P.T., Grade I, £330-£15-£375.
ONE JUNIOR GENERAL ASSISTANTS. Salary Miscellaneous, Grade I, £255-£15-£300.
Plus a cost-of-living bonus.
The Architectural Assistants will be employed wholly on housing work, and the Engineering Assistants are required for schemes of sewerage and sewage disposal. Preference will be given to those applicants who have obtained qualifications of a recognized professional institution.
The Council have adopted the National Scale of Salaries and Conditions of Service, and the appointments are subject to this.
Applications, stating age, qualifications and experience, together with copies of not more than two testimonials, should be delivered to the undersigned not later than Saturday, 21st December, 1946.

F. W. WALPOLE,
Clerk of the Council.

F. W. WALPOLE, Clerk of the Council.

Council Offices, Oxted, Surrey. 30th November, 1946.

OUNTY OF GLAMORGAN.

COUNTY OF GLAMORGAN.

WEST GLAMORGAN JOINT PLANNING COMMITTEE.

APPOINTMENT OF PLANNING OFFICER.

Applications are invited for the post of Planning Officer to the above-mentioned Joint Committee. The post now advertised is the first appointment to be made.

The post will be a whole-time one, and the salary will be at the rate of \$250 per annum, rising by annual increments of £50 to \$2850, plus cost-of-living bonus, as may from time to time be paid by the Joint Committee (at present £59 l6s. per annum). The conditions of service will be those contained in the Scheme of Conditions of Service, prepared by the National Joint Council for Local Authorities Administrative, etc.. Services. The appointment will be determinable by three months notice on sither side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination

The successful candidate will be required to pass a medical examination. The Joint Committee has recently been constituted to prepare a Planning Scheme for that part of the County of Glamorgan comprising the areas of Llwchwr Urban District Council, Pontardawe Rursal District Council, and Gower Rural District Council.

Applicants should have had wide experience of all aspects of Statutory Planning. Interim Development Control, preparation of bosic surveys and statutery planning schemes and must be Corporate Members of the Town Planning Institute. In addition, applicants must be one of the following:

Corporate Members of the Town Planning Institute. In addition, applicants must be one of the following:—

(a) Corporate Members of the Institution of Civil Engineers.

(b) Corporate Members of the Institution of Municipal and County Engineers.

(c) Corporate Members of the Royal Institution of Chartered Surveyors.

(d) Fellows or Associates of the Royal Institute of British Architects.

Applicants must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Joint Committee. Canvassing, directly or indirectly, will disqualify. Applications, stating age, qualifications, past and present appointments, and present salary, accompanied by the names of two persons to whom reference may be made, must be sent to reach the undersigned by the 6th January, 1947.

Clerk to the Joint Planning Committee.

Council Offices, West Street, Gorseinon.

2nd December, 1946.

522

HUNTINGDONSHIRE COUNTY COUNCIL.

2nd December, 1946.

HUNTINGDONSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT (Grade I).
Applications are invited for the above-named appointment, on the established staff, at a salary of £300-£15-£375 per annum, plus cost-of-living bonus, at present £59 168, per annum. The commencing salary will be made within the grade, according to the axe, qualifications, and experience of the successful candidate.
The appointment will be subject to the Local Government Superannuation Act, 1º37, and successful candidate will be required to pass a medical examination.

successful candidate will be required to pass a medical examination.

The appointment is terminable by one month's notice on either side.

Applications. stating ave, qualifications, experience, and date on which duties could be commenced if appointed, together with copies of testimonials. should be sent to Mr. T. H. Longstaff, M.Inst.C.E., F.R.I.B.A., County Architect. Walden House, Huntinadon, by not later than Friday, 20th December. 1946.

J. B. KELLY,

Clerk of the County Council.

Council Offices, Old Grammar School,

Huntingdon.

29th November, 1946.

MIDDLESEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments to established staff, subject to medical examination:—
(a) ARCHITECTURAL STAFF:
(1) SENIOR ASSISTANT. Commencing salary 2750, rising by annual increments of £50 to £850

p.a. Applicants must have a specialized knowledge of school design, be capable of controlling staff, and have good experience on administrative work.

(2) ARCHITECTURAL ASSISTANTS, in the following grades of the Administrative, Professional, and Technical Division of the National

Scales:—
Grades VI.—£555-£620 p.a.
Grades II. IV and V.—£380-£530 p.a., or at intermediate salaries.
Grade I.—£350-£395 p.a.
(3) JUNIOR ARCHITECTURAL ASSISTANTS, in Miscellaneous Division, Grade I (£285-£330 p.a.).
Applicants for appointments in Grade VI and above should be Associate Members of the R.I.R.A.

(£285-£330 p.a.).

Applicants for appointments in Grade VI and above should be Associate Members of the R.I.B.A.

(b) QUANTITY SURVEYING STAFF:

(1) CHIEF QUANTITY SURVEYOR. Commencing salary £850, rising by annual increments of £50 to £1,000 p.a.

Applicants must be fully qualified Quantity Surveyors, have had wide experience in all branches of the work, and be good organizers.

(2) QUANTITY SURVEYING ASSISTANTS, in the following grades of the Administrative, Professional, and Technical Division of the National Scales:—

Grade VIII: £645-£720 p.a.

Grade VIII: £645-£720 p.a.

Grade VIII: £595-£670 p.a.

Grade VIII: £955-£620 p.a.

Applicants for Grade VI and above must be fully qualified Quantity Surveyors.

Temporary cost-of-living bonus, £60 p.a., additional to all the foregoing salaries, which are inclusive of London Weighting.

Written applications, stating appointment and grade for which applying, and giving full details of age, qualifications and experience, together with copies of recent testimonials, to C. G. Stillman. F.R.I.B.A. County Architect, 20, Vauxhall Bridge Road, S.W.I., by Monday, 30th December, 1946.

Vauxhall Bridge Road, S.W.1, by Monday, 30th December, 1946.

Canvassing will disqualify.

C. W. RADCLIFFE.

Clerk of the County Council.

Guildhall, S.W.1 (A.773).

COUNTY COUNCIL OF LEICESTER.

Applications are invited for the following appointments, on the permanent staff of the Department of the Architect to the Education Committee:

mittee:—
(a) THREE ARCHITECTURAL ASSISTANTS.
National Scale. A.P.T., Grade III. Salary £390
to £435 p.a., plus war bonus (at present £59 168.

p.a.).

(b) ONE DRAUGHTSMAN. Miscellaneous Division, Grade II. Salary £315 to £366 p.a., plus war bonus (at present £59 168. p.a.).

Applicants should have had experience in an architect's Office, and should be able to prepare working drawines. They should have a thorough knowledge of building construction.

The appointments are subject to the provisions of the Local Government Superannuation Act. 1937, and the successful applicant will be required to pass a medical examination.

It is desirable that applicants should be members of the Royal Institute of British Architects.

members of the Royal Institute of British Architects.

Applications, stating age, qualifications, experience, the pames of two persons to whom reference may be made, and endorsed "Architectural Staff." should be delivered to the undersigned not later than Saturday, the 31st December, 1946.

Canvassing, either directly or indirectly, will be a disqualification.

JOHN A. CHATTERTON,
Clerk of the County Council.

County Offices, Grey Friars, Leicester.

29th November, 1946.

999

METROPOLITAN BOROUGH OF BERMONDSEY.

APPOINTMENT OF ESTIMATOR.

Applications are invited from fully qualified and experienced persons for appointment as Estimator. in the Building Manazer's Department. The salary will be between 2500 and 2500 per annum, according to the qualifications and ability of the successful applicant, who will be required to pass a medical examination, and to contribute to the Council's, Superannuation Fund. The appointment will be temporary for a period of one year in the first instance, and subject to one month's notice on either side. At the end of that period, and subject to satisfactory service, the position will be reviewed with a view to transfer to the Council's permanent establishment.

Applications, on forms to be obtained from the council of the success of the council of the success of the council of the council

transfer to the Council's permanens comment.

Applications, on forms to be obtained from the Building Manager, Municipal Offices, Bermondsey, must be enclosed in a sealed envelope marked "Estimator," and returned to him not later than the 28th December, 1946. Canvassing will be a disqualification.

S. E. FREEMAN,

Town Clerk.

Municipal Offices, Spa Road, S.E.16.

526

ANGLESEY JOINT PLANNING COMMITTEE.

JUNIOR PLANNING ASSISTANT.

Applications are invited for the permanent appointment of Junior Planning Assistant, in the County Planning Department. Salary, Grade I, A.P.T. Division, E330—215—2575 per annum, plus cost-of-living bonus, at present 259 16s.

Applicants must have experience in the preparation of planning maps, Ordnance Map revision, land surveys, and other work associated with a planning office. Architectural experience will be an added advantage.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and applicants will be required to pass a satisfactory medical examination.

The appointment is terminable by one month's notice on either side.

Applications, to be accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than Saturday, 21st December, 1946.

WILLIAM JONES,

Clerk to the Joint Committee.

Shire Hall, Llangelni, Anglesey.

NOTTINGHAMSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments, in the above Department, at salaries within the Administrative, Professional, and Technical Division of the National Joint Council Scale indicated, namely:—

(a) ASSISTANT ARCHITECTS (3), at salaries within Grade III, namely £390×£15—435 per part of the county of the substitute of the substit

annum:

(b) ASSISTANT ARCHITECTS (3), at salaries within Grade III, namely £390×£15—435 per annum; and (c) ASSISTANT ARCHITECT (1), at a salary within Grade II, namely £330×£15—£375 per

annum.

In addition to the salaries indicated above there will be paid a cost-of-living bonus, at present £59 16s, per annum. Preference will be given to applicants who are Members of the Royal Institute of British Architects.

The appointments will be subject to the Local Rovernment Superannuation Acts, and the successful candidates will be required to pass a medical examination. Canvassing of Members of the County Council, either directiv or indirectly, will be regarded as a disqualification.

Application forms and conditions of appointment may be obtained from the County Architect, Shire Hall, Nottingham, to whom completed applications should be returned as soon as possible.

K. TWEEDALE MEABY, Clerk of the County Council. Shire Hall, Nottingham.

Shire Hall, Nottingham.

THE POLYTECHNIC. 369, REGENT STREET, W.1.

SCHOOL OF ARCHITECTURE SURVEYING, AND BUILDING.

Applications are invited from suitably qualified candidates for inclusion on the panel of PART-TIME DAY AND EVENING LECTURERS.

The School provides courses in preparation for the examination of the Boval Institute of British Architects, the Town Planning Institute. the Royal Institute of Or National Diplomas and Certificates in Building.

for National Application may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

I. C. JONES,

J. C. JONES, Director of Education.

LONDON COUNTY COUNCIL.
VACANCIES FOR PLANNING STAFF IN THE
ARCHITECT'S DEPARTMENT FOR WORK ON
THE COUNTY OF LONDON PLAN.
Applications are invited for a number of positions in the following grades:—
PLANNING OFFICER (Grade III). Up to

£500 a year (basic). TECHNICAL ASSISTANT. Up to £420 a year

(basic).
Commencing rate of pay will be according to qualifications and experience Cost-of-living addition, at present £78 to £90 a year (men), and £63 to £84 (women), are payable in addi-

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

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

zoning plans.

zoning plans.

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

tions.
Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act. 1944, and ex-Service men and women will also receive special consideration.
Application should be made to the Architect to the Council. County Hall, West-ninster Bridge. S.E.1. for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.
Canvassing disqualifies.

BOROUGH OF WIDNES.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
Applications are invited for the following aubject to the Local Government Superannation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.
The salary scales are those of the A.P. & T. Division of the National Scheme of Conditions of Service, and are exclusive of the cost-of-living bonus, at present £59 16s, per annum.

(a) ENGINEERING ASSISTANT (Grade V), 2460-2510.

ENGINEERING ASSISTANT (Grade IV),

£420-£465. (c) ARCHITECTURAL ASSISTANT (Grade

420.2465.

(c) ARCHITECTURAL ASSISTANT (Grade IV), 2420.2465.

(d) CHIEF TOWN PLANNING ASSISTANT (Grade V), 2420.2465.

(d) CHIEF TOWN PLANNING ASSISTANT (Grade V), 2460.2510.

Candidates for appointment (a) should hold one at least of the following qualifications (a) Associate Membership Examination Inst. C.E.. (b) Testamur of the Inst. M. & Cy.E., (c) an Engineering Degree of a British University, and should have had considerable experience in Municipal Engineering Works.

Candidates for appointment (b) should preferably hold one of the qualifications referred to in appointment (a), or should be well advanced in the examinations for such qualification, and should have had some experience in Municipal Engineering Works.

Candidates for appointment (c) should be given to those who have passed the examination for Associateship of British Architects, and should have some experience in Municipal Architectural work, particularly housing and schools.

A Borough Architect's Department is being set up, and the candidate appointed will join that department.

A Borough Archiver's September 19 per 19 per

Town Hall, Widnes. 3rd December, 1946.

3rd December, 1946. 528

Applications are invited for the appointment of SECOND-ARCHITECTURAL ASSISTANT. in the Borough Surveyor's Department, at a salary in accordance with Grade IV of the National Scale. £490-£15-£465, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates should have had experience in housing and general work. Appleations, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant." with copies of three recent testimonials, to be delivered to the undersigned on or before Saturday, 28th December, 1946.

F. W. ROBERTS, Town Clerk.

Town Hall. Nelson. Lancashire. 5th December, 1946.

BOROUGH OF LUTON.
TECHNICAL STAFF.
Applications are invited for the following oppointments, in the Borough Engineer's Depart-

Applications are invited for the following appointments, in the Borough Engineer's Department:—

(a) TWO SENIOR ARCHITECTURAL ASSISTANTS. Salary 2535—260—253—260—265—2600.

(b) ONE ARCHITECTURAL ASSISTANT. Salary 2420—215—2465.

Applicants must be A.R.I.B.A., and have had extensive experience in the design and construction of public buildings, schools, and municipal houses, and, in particular, have had recent experience in the design and development of housing schemes.

The appointments are subject to the provisions

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and temporary cost-of-living homes, at the rate of £59 15s, per annum, is payable in respect of each appointment.

Applications, suitably endorsed, giving particulars of are, availingations and experience, together with details of present appointment, and accompanied by copies of net more than three recent testimonials, should be delivered to the Borough Engineer, Town Hall, Luton, Beds, not later than first post of Friday, 10th January, 1947. Canvassing, directly or indirectly, will disqualify.

W. H. ROBINSON, Town Clerk. Town Hall, Luton 3rd December, 19 535

CRANBROOK RURAL DISTRICT COUNCIL.
WHOLE-TIME ARCHITECT AND HOUSING
SCHEME SUPERINTENDING OFFICER FOR
5-10 YEARS.
Applications are invited for a whole-time Architect and Superintending Officer to the Council in connection with the Council's Housing Schemes.
The term of the appointment will, subject to satisfactory service, be for five years at least, with a possibility up to ten years.
Applicants (who should not be over 45 years of age) must be Associates of the R.I.B.A., and any other qualifications, will be an additional recommendation. Previous experience of supervising and superintending building work under Contract (and particularly the erection of houses) is essential.
Duties of the appointment are:—

is essential.

Duties of the appointment are:

(a) To prepare layouts for site development;
plans and types of houses, and the specifications
thereof (but not bills of quantities).

(b) To supervise the carrying out of the work
under Contract for site development and the
erection of the houses, and generally to perform
the duties of Superintending Officer, under the
Contracts.

the duties of Superintending Officer, under the Contracts.

(c) To deal with the final accounts arising under the Contracts in conjunction with the Chief Financial Officer.

The salary will be at the rate of £900 per annum, rising by five annual increments of £30 to £1.050 per annum. A travelling allowance for the use of the officer's car in the performance of his duties will be arranged with him.

Applications, stating agr. qualifications, and particulars of all experience, together with a copy of three recent testimonials, should be received by the undersigned not later than 28th December, 1946.

Canvassing in any form will disqualify.

copy of three recent testimonials, should be received by the undersigned not later than 28th December, 1946.

Canvassing in any form will disqualify.

By order,

P. G. BANFIELD,

Council Offices, Hill House, Cranbrook, Kent.

29th November, 1946.

LONDON COUNTY COUNCIL.

CLERKS OF WORKS.

Applications are invited for positions of Clerks of Works (Class II), in the Architect's Department, to supervise constructional, maintenance, and repair works at the Council's schools, hospitals, and other buildings. There may also be shortly a few Class I positions. Rates of pay (according to qualifications and experience) are: Class I. £360.2400 a year (basic), plus cost-of-living addition, at present, of 30s. a week.

Successful candidates, under 55 years of age, will be subject to the Council's Superannuation and Provident Fund, but will be temporary in the first instance.

Other things being equal, preference will be given to persons registered under the Disabled Persons' (Employment) Art, 1944, and ex-Service men will also receive special consideration.

Applications (enclosing stamped addressed envelope) to be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application.

Canvassing disqualifies.

for form of application.
Canvassing disqualifies.

WESTMORLAND COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
a SENIOR ASSISTANT ARCHITECT. Salary
£420_£510 (Grade V).
A cost-of-living bonus (at present £59 16s.) will
be paid in addition to the above salary.
Candidates must be Registered Architects, preferably A.B.I.B.A., with good experience of modern
School, Police, and Public Health work, and the
organization and supervision of Building
Contracts.

The appointment will be on the permanent staff
of the County Council (terminable by one month's
notice on either side), and subject to superannuation and successful medical examination.
Applications, endorsed "Senior Assistant Architect," giving full particulars as to age, education, etc.. qualifications and experience (and/or
war service). and accompanied by copies of two
recent testimonials, must be received by the
undersigned not later than Friday, 27th December, 1946. ber, 1946.

undersigned not later than Friday, 27th December, 1946.

H. B. GREENWOOD, M.A..LLB.,

Clerk to the County Council.

Connty Hall, Kendal, Westmorland.

SOUTH-WFST ESSEX FECHNICAL COLUBGE AND SCHOOL OF ART. FOREST ROAD.

WALTHAMSTOW.

Applications are invited from persons with Architectural. Surveying or Structural Husineering qualifications, for a full-time permanent post of STUDIO MASTER AND LECTURER in Building Construction. A knowledge of steel work and reinforced concrete work will be an advantage.

Salary in accordance with Burnham Technical Scale (with London allowance), plus increments for approved industrial or professional experience.

ence.
Applications by letter, accompanied by copies of three testimonials, and the names of three referees, should be submitted to the Acting Clerk to the Governors of the Cellege not later th...n Tuesday, 24th December. 1946.
B. E. IAWRENCH,
Chief Education Officer.
County Offices, Chelmsford.

County Offices, Chelmsford.

APPO ment. The annur

living being App tion r The Gover succes medic appoi signed App ments ence, must

endor Mani Amen

App porar housi (a) annu living per a

Corp

THE

Aptects
of a
£700
£50
ling
Ap
A.R.
ledg

Med

bon exa

more A with the A per acce

To

COUNTY BOROUGH OF OLDHAM.

APPOINTMENT OF GENERAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of
General Architectural Assistant in my depart-

IL. NG OR

chi-l in nes.

to

and onal perses)

the

ance orm-

re-

ncil.

part-

ince, also

Class addi-

ll be abled rvice

qseed the

T. nt of alary

will pre-odern d the

nnuarchiduca-nd/or two the ecem-

uncil.

OAD

with ineer-post R in R in steel

nnical ments xperi-

fficer

ment. The salary will be at the rate of £360 per annum, rising to £405 per annum (plus cost-of-living bonus, at present £59 16s. per annum, being Grade II of the National Scale of Salaries. Applicants are requested to give full information regarding their qualifications and experience. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Conditions relating to the appointment can be obtained from the undersigned.

appointment can be obtained.

Applications, stating age and previous appointments, in addition to qualifications and experience, and copies of three recent testimonials, must reach the undersigned not later than Monday, 23rd December, 1946, in envelopes endorsed "General Architectural Assistant."

A. L. HOBSON,

Borough Engineer and Surveyor.

Municipal Buildines, 75, Union Street,
Oldham.

4th December, 1270. 531

Amended Advertisement.
BOROUGH OF WREXHAM.
HOUSING ARCHITECT'S DEPARTMENT.
Applications are invited for the following temporary appointments, in connection with a large housing scheme:—

(a) QUANTITY SURVEYOR. £600 per

annum.
(b) SENIOR ARCHITECTURAL ASSISTANT.

£575 per annum. (c) ARCHITECTURAL ASSISTANT. £510 per

(c) ARCHITECTURAL DRAUGHTSMAN.
(d) ARCHITECTURAL DRAUGHTSMAN.
2350 per annum.
The above salaries are inclusive of the cost-of-living bonus, at present amounting to £59 19s. 3d.

living bonus, at present amounting to 209 198. Super annum.

Further particulars and Conditions of Appointment may be obtained from the undersigned, to whom applications are to be delivered by not later than 30th December, 1946.

Subject to the Conditions of Appointment the Corporation is prepared to provide houses for the successful applicants and to pay their removal attentions.

PHILIP J. WALTERS,

THE CARDIGANSHIRE COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY

ARCHITECT.

Applications are invited from Registered Architects for the whole-time permanent appointment of a Deputy County Architect, at a salary of 250 to 2800 per annum, rising by annual increments of 250 to 2800 per annum, plus bonns and travelling allowance on the Council's scale.

Applicants must possess the qualification of A.B.I.B.A. by examination, with special knowledge of the designing and construction of modern school buildings.

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

Applications, stating age, qualifications, and experience, accompanied by copies of two recent testimonials, endorsed "Deputy Architect," must reach the undersigned not later than 31st December, 1946.

VOR EVANS,

Clerk to the County Council.

November, 1946.

BOROUGH OF BRIDLINGTON.

County Offices. Aberystwyth.

November, 1946.

BOROUGH OF BRIDLINGTON.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

The Town Council invites applications for the appointment of an Architectural Assistant, at a salary in accordance with Grade II of the A.P.T. Division of the National Scales of Salaries (£360-£405 per annum, and cost-of-living bonus). The commencing salary will be fixed according to the qualifications and experience of the vuccessful applicant.

The appointment will be subject (a) to the National Scheme of Conditions of Service, (b) to the Local Government Superannuation Act, 1937.

(c) to the successful applicant passing a medical examination and (d) to termination by one month's notice on either side.

Applicants should be Associates of the R.I.B.A., with good general experience. The Council will if necessary arrange housing accommodation for the successful applicant.

Applications, stating age, qualifications and experience, present and past appointments (if any), accompanied by copies of three recent testimonials, endorsed "Architectural Assistant," must be delivered to me not later than Wednesday, the 8th January, 1947.

Canvassing, directly or indirectly, will be a disqualification, and applicants must disclose in their applications whether to their knowledge they are related to a member of the Council or Senior Officer of the Council.

S. BRIGGS,
Town Hall, Bridlington.

Town Hall, Bridlington. 29th November, 1946. 534

NORTH RIDING OF YORKSHIRE COUNTY
COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned appointments on the permanent staff. Salaries in accordance with the National Joint Council's Scales, where applicable, plus cost-of-living bonus (at present £59 lés, per annum).

(a) DEPUTY COUNTY ARCHITECT. £700, by annual increments of £50 to £800 per annum.

(b) SENIOR ASSISTANT ARCHITECT. A.P.T., Grade II (£535-£600).

(c) ASSISTANT ARCHITECT. A.P.T., Grade II (£536-£600).

(c) ASSISTANT ARCHITECT. A.P.T., Grade II (£30-£375).

(d) JUNIOR ASSISTANT ARCHITECT.
A.P.T., Grade I (£30-£375).

Candidates in respect of (a), (b) and (c) must have qualified as Associate Members of the Royal Institute of British Architects, and (d) and (e) must have had experience in the Architect's Department of a local authority.

The following conditions apply to appointment (a):—The person appointed will be required to provide and maintain a car. Travelling and subsistence allowances will be paid on the Council's scale. The appointment will be terminable by three calendar months' notice on either side. The appointment covers the whole of the architectural work of the Council, with the exception of that of the Education Committee.

All the above appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a satisfactory medical examination. Appointments (b), (c) and (d) will be terminable by two months' notice in writing on either side, and (e) by one month's notice.

Forms of application are not being issued, but further information may be obtaind from J. Catchpole, A.R.I.B.A., County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whem reference can be made, must be delivered to the undersigned, not later than Tuesday, the 7th Japonithments, in the Borough Engineer and Surveyor's Department. The appointments



£20-£510). Commencing salary £435. Qualifications required:—A.R.I.B.A.

(2) THIRD ARCHITECTURAL ASSISTANT. Grades III/IV (£390-£15-£15-£15-£15-£15-£465). Commencing salary in accordance with qualifications. Qualifications required:—Registered Architect, preference A.R.I.B.A.

(3) QUANTITY SURVEYING ASSISTANT. Grade III (£390-£15-£15-£15-£435). Qualifications required:—Member of the Royal Institution of Chartered Surveyors (Quantities SubDivision).

(4) GENERAL ENGINEERING ASSISTANT

Division).

(4) GENERAL ENGINEERING ASSISTANT. Grade I (2330-215-215-215-2375). Qualifications required:—Previous municipal experience, B.Sc. (Engineering) or Sections A and B of the A.M.I.C.E. Examination or Intermediate Examination of the Testamur of the Institution of Municipal and County Engineers.

Applications suitably endorsed, giving details of experience, age, etc., together with copies of not more than three recent testimonials, to be delivered to the Borough Engineer and Surveyor, Carr Bank, Mansfield, not later than Tuesday, 31st December, 1946.

Canvassing, either directly or indirectly, will disqualify.

A. C. SHEPHERD,

A. C. SHEPHERD, Town Clerk.

Carr Bank, Mansfield. 3rd December, 1946.

Partnership

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

1s. 6d.

REQUIRED.—Partnership, or Assistantship to partnership, required by A.R.I.B.A., Dip.Arch., Dist. L'pool.; cert. town planning; registered architect; 10 years' practical experience; South of England preferred; replies in confidence. Box 525.

Architectural Appointments Vacant

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

A RCHITECTURAL DRAUGHTSMAN required, Maidenhead; capable of working up from sketches, preparing details, surveys, etc. Send details of experience and salary required to

JUNIOR DRAUGHTSMAN required in Maidenhead Architect's Office. Send par-ticulars of experience and salary required to Box 672.

BOX 672.

HENRY C. SMART & PARTNERS, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required.

Write, stating age, experience, and salary required.

CORNWALL.—Senior and Junior Assistants required; ex-Service men preferred; state age, family, etc; experience, service, and rank, and salary required. Box 958.

A SSISTANT ARCHITECTS required in Manchester Office; should be experienced in commercial and industrial work; good draughtsmen, with sound knowledge of general construction; salary up to £400 per annum, according to qualifications (plus war bonus of £74); good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating educational qualifications, experience, and age, with copies only of testimonials, to Box 980.

SENIOR and JUNIOR ARCHITECTURAL and TOWN PLANNING ASSISTANTS required in busy office. Somerset; excellent prospects and progressive appointments; 5 day week. Full particulars of training, experience, etc., to Box 986.

etc., to Box 986.

A RCHITECTURAL ASSISTANT required by East Coast Brewery Company; experience in working drawings and surveys; experience in quantity surveying preferable, but not essential; good salary for suitable applicant; accommodation may be found. Reply, giving full details of experience, to Box 987.

TRACER wanted for Central London Drawing Office; willing to do small amount of shorthand and typing; salary according to experience; previous experience not essential. Reply Box 994.

A SSISTANTS and JUNIOR ASSISTANTS wanted in busy Mayfair Architect's Office. Apply to Alan A. Briggs, F.R.I.B.A., 15, Curzon Street, London, W.I. Tel.: GROSvenor 4151. 510

EXPERIENCED ASSISTANT required, with expert knowledge of design, and the preparation of show drawings and sketches for clients; constructional knowledge an advantage, but not essential. Write, stating experience and salary required, to Louis de Scissons. A.R.A., 21. St. John's Wood Park, London, N.W.3.

YOUNG, qualified, ASSISTANT CIVIL ENGINEER required for private office in West Norfolk; must be good draughtsman, and have sound experience of reinforced concrete construction, reads and sewers; salary £400 to £500 per annum, according to qualifications. Reply, with full details, to Box 520.

SEELY & PAGET, F./L.R.I.B.A., require fully qualified Assistant; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.I.

Compresent Junior Architectural Draudhtrsman required for office in West Norfolk; salary £300 to £400 per annum, according to experience. Reply, with full details, to Box 521.

COMPETENT Architect and Building Surveyor Assistant required in busy London office. Write, stating age, experience, and salary re-quired, to Box 523.

R EQUIRED, for large Provincial Retail
R Stores, Registered ARCHITECTURAL
DRAUGHTSMAN; experience in internal
planning and layous; between ages 30 and 40 preferred; excellent salary and prospects. Box 527.

ferred; excellent saiary and prospects. Box 527.

SENIOR ARCHITECTURAL ASSISTANT required for private office in Liverpool area; salary £550-£700. Apply Box 529.

SHOPFITTING DRAUGHTSMAN required; thoroughly experienced coloured perspective drawings and scale layout work, with good knowledge of building construction; good prospects, with progressive firm, West London. Full particulars and salary expected. Box 552.

ASSISTANT ARCHITECT, with industrial building experience, required by professional firm in Westminster. Please give full details, qualifications, and experience to Box 537.

ARCHITECTURAL ASSISTANT recoursed

details, qualifications, and experience to Box 537.

A RCHITECTURAL ASSISTANT required immediately for general practice; 60 miles London; pleasant conditions; working drawings, details, surveys, etc.; good draughtsmanship essential; flat available if required. Particulars and salary required to Box 540.

DRAUGHTSMAN required; N.E. London district; experienced in straightforward design and detailing of steelwork or reinforced concrete. Box 543.

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (34) offers services, whole or part time; Essex or Suffolk area preferred. Box 193.

ARCHITECTURAL ASSISTANT (young lady, 20), Inter. R.I.B.A., exemption, neat draughtswoman, 15 months' private office experience, desires interesting position in a town with evening-class facilities (Southern Counties, not London). Box 198. evening-class facili London). Box 198.

JUNIOR ASSISTANT (25), studying architecture, requires situation; good knowledge of building construction, prefabricated house design, housing and building regulations; neat draughtsman; part-time office work to supplement if required; willing to travel on outside work; London/wimbledon area. Box 194.

A R C H I T E C T U R A L DRAUGHTS-plans, all working drawings; salary £6 10s. Box 194.

RICHMOND, Twickenham, Kingston district.
ASSISTANT (30), studying R.I.B.A. Final,
5 years' office experience, wants part-time job.
Tel. Richmond 2926. Box 195.

Toung Man (27, single) desires training vacancy in Quantity Surveyor's Office; 44 years' experience general office routine; slight knowledge of building construction; demobilised; 6 years' battery surveyor in Royal Artillery; keen worker; within reasonable distance Aldershot preferred; low wage. Reply E. W. Hammond, 39, York Road, Aldershot, Hants. 197

A. R.I.B.A., A.A.Diploma (37), offers tember 10 to January 10 (perhaps longer); able to manage office if principal wishes to take short holiday over Christmas; wide experience in several types of work. Box 196.

Other Appointments Vacant

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

LADY SECRETARY or CONFIDENTIAL CLERK (Male) required by Architects and Surveyors; shorthand-typing, simple book-keeping essential; excellent prospects for man or woman willing to work hard and take a live interest in a growing business; salary £4 to £5 per 5-day week to start, plus bonus. Towndrow & Ransom, 96, Victoria Street, S.W.1.

SHORTHAND TYPIST; competent, preferably with experience in Architects', Surveyors' and Estate Agents' office; good salary and permanent interesting post to suitable applicant. Senior & Godwin, Chartered Surveyors, Blandford, Dorset.

CORRESPONDENCE CLERK to assist Sales Manager required by Group of Companies, with head office in Surbiton; man with initiative and ability to act on own responsibility; able to read drawings; knowledge of building trade an advantage. Write fully past experience.

Other Appointments Wanted

WANT

WANT

SALES keen building I counties of architects, ties; Lond and compe

THE

An and forms accepted Stobart & S.W.1 (Al

DUPLI dupl

noderate Jermyn S

PENCI T and Winder Birmingh

REPRIMENT WITH THE STREET BY STREET

PRACT in to dation in ments are assistants

saff. Bo

COPY U Stru mod pri tect's De

TYPIN Lor

typing undertak W.C.2.

E Four lin

Courses 115. Gow

R.I.

Hat wit

We ha Sheet C Mill

"UI

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

L AND SURVEYS for Housing Schemes and other projects carried out by expert, with own car and equipment. Box 829.

A. B.I.B.A., with own office in North Scot-knowledge and experience of building in tropical countries. Box 962.

R NGINEER undertakes Sanitary Surveys and Prepares Designs for Water Services, Drainage and Disposal Systems for country house conversions, etc. Box 979.

For Sale

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

1947 DESK DIARIES, 8 in. by 5 in., two days to page, patent plastoic binding, gold embossed covers; 6s. each, 3 for 16s. 6d., post paid. Caxton Press, Shildon.

Miscellaneous

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

A. J. BINNS, LTD, specialists in the supply and fixing of all types of fencing, tubular guard rail, factory partitions and gates. 99-107, St. Pauls Road, N.1. Canonbury 2061.

J. BAYNES, LTD., established over 100 years. Heating, Ventilating and Sanitary Engineers. 99/107, St. Paul's Road, N.1. Canonbury 2061-3.

Canonbury 2061-3.

"CAN I HELP YOU!" I have on my staff Draughtsmen, Building, Estimating, Land, Measuring and Quantity Surveyors, Write C. F. Rumble, 29/31. Whitehall, S.W.1. Tel.: Whitehall 9514.

HEATING, HOT WATER SERVICES, VENTILATION, AIR CONDITIONING for Hotels, Flats. Private Houses, Public Buildings. Factories; district heating and communal services; Consulting Engineers would be glad to collaborate with Architects in Design and Installation of Schemes. W. H. Ross & Partners. Temporary address: "Stratton," Deanery Road, Godalming.

SAVE TIMBER

PRESSURE TREATMENT WITH

CREOSOTE or WOLMAN SALTS

EXTERIOR or INTERIOR

RENDERS TIMBER RESISTANT TO DRY ROT, DECAY, ETC. AND SAVES TIMBER FOR THE FUTURE.

WORKS IN:-LONDON . BRANDON . BIRKENHEAD . BOSTON . PORT TALBOT BO'NESS.

CALDERS, LTD.

'Phone: REGENT 1293

29 Regent Street, London, S.W.I

WANTED.—One set of "Arts Et Matiers Graphiques." Please reply to Box 5.

WANTED. -Complete set of "Typography." Box 487.

lional

with

Scotiring

and vices, house

line.

two bind-6d., 515

line,

upply bular 9-107,

itary N.1.

staff ering easur-mble, 14.

CES, G for lings, nunal ad to and tners. Road,

599

SALES EXECUTIVE, with excellent references, keen to act as Selling Agent for specialist subling products and equipment; unique Home (unsities connection, educational authorities, and grhitects, and County and Municipal Authorities; London office and staff available; thorough and competent representation assured. Box 147.

THE ARCHITECTURAL FORUM" of and format. Annual subscriptions can now be accepted at 50s. per annum, prepaid, through sphart & 50s. per annum, prepaid, through sphart & 50s. per Language Sphart & Son, Ltd., 9, Victoria Street, London, 3W.1 (ABBey 2858).

DUPLICATING.—Specifications, etc., expertly duplicated or typewritten; good service, moderate fees; recommended. Miss Stone, 109. lempn Street, S.W.1. Whiteball 9682. 941

FENCING FOR ALL PURPOSES.—Supplied mad erected; established 100 years. Parker, winder & Achurch, Ltd., 80, Broad Street, Simmingham, 1.

REPRESENTATIVES wanted immediately, with established connections among Archiindex and Building Contractors, in door and
rindow fittings, in different parts of the country,
specially the Midlands, London, and the South.

PRACTISING ARCHITECT, A.R.I.B.A., now in terporary offices, wishes office accommonents are: private office, drafting room for four asistants, and secretary's office; willing to share with another architect, including secretarial staff. Box 533.

COPY of Percy Waldram's "Principles of Structural Mechanics" needed urgently; med price given. c/o J. L. Edmonds, Architet's Dept., Shire Hall, Gloucester. 639

TYPING BUREAU. newly established Central London area.—Principal, with knowledge of typing Building Specifications, etc.. willing to metrake further work. Evans, 171, Strand. W.C.2. TEMple Bar 0553.

Educational Announcements

four lines or under, 5s.; each additional line.

R.I.B.A. QUALIFYING EXAMINATIONS.
Mr. C. W. Box, F.R.I.B.A., M.R. San.I.
Cornes of Correspondence and Personal to Studio
115. Gower St. London, W.C.1. (Tel.: Enston 3905).

R I.B.A. and T.P. INST: EXAMS. Private
Courses of Tuition by correspondence
aranged by Mr. L. Stuart Stanley, M.A.
F.R.I.B.A., M.T.P.I. Tutor, 212, Euston Road,
N.W.I. Tel.: EUS. 7760.

Have Your Goods Made with Aircraft Precision

We have capacity available for LIGHT PRESSWORK Sheet metalwork: Tube manipulation Oxy-Acet and Electric Welding.

ARDEN PRODUCTS,
Mill End, Kenilworth, Warwicks

L·P·T·B BUS SHELTER COMPETITION

The Kee Klamp System of Tubular Construction has among its chief characteristics, swift dismantling and rapid re-erection, combined with rigid construction. We will send intending Competitors all information. Examine this before entering your design.

The Geo. H. Gascoigne Co. Ltd., Berkeley Avenue, Reading.

Telephone: Reading 4831/2/3.

THE WORLD'S GREATEST BOOKSHOP

- BOOKSELLERS TO THE WORLD

119-125 CHARING CROSS RD., LONDON, W.C.2

Open 9 a.m.-6 p.m., including Saturday, Telephone: GERrard 5660 (16 lines).

STEELWORK BY

SWAN WORKS, HANWORTH, MIDDX

'Grams : " Sharman," Feltham

'Phones: Feltham 3007. Sunbury 2367.

SPECIFY ELECTRIC SWITCHGEAR It's Reliable



Electrical Contracting

For a complete and

helpful service

RING WEMbley 0194



SERVICE ELECTRIC CO. LTD.

ABBEY MANUFACTURING ESTATE **ALPERTON** MIDDX

MODELS

ESTAB BY

John B. THORP FOR

98 GRAY'S INN ROAD, W.C.I TELEPHONE :

TOWN PLANNING PUBLIC BUILDINGS ESTATES and INTERIORS

HOLBORN 1011

NEW FLOORS for OLD

Wood Floors Planed, Sanded, Repaired and Treated.

FLOOR RENOVATIONS LTD.

35, LAURISTON ROAR, E.S. Phone - AMH 1080 Sandpapering machines for hire.





(S. P. W. BRAND)

TELEPHONE & TELEGRAMS BULWELL 78237-8

M.MCCARTHY&SONS,LTD

NOTTINGHAM



UNO" **STENCILS**

for Lettering **ENGINEERS'** & ARCHITECTS' PLANS

A. WEST & PARTNERS, Ltd. 36, BROADWAY, WESTMINSTER, LONDON, S.W.1



DOORS WINDOWS STAIRS

SPECIALISING

IN WOODWORK TO

DESIGNS ARCHITECTS'

THE MIDLAND JOINERY WORKS LTD.

'PHONE : 3685 (3 lines)

BURTON - ON - TRENT.

GRAMS: MIDJOIN

Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Accrington Brick & Tile Co., Ltd		Ewart & Son, Ltd	xxxviii	Mint, Birmingham, Ltd., The	-
Adams, Robert (Victor), Ltd	1	Expanded Metal Co., Ltd		Mitchell Construction Co., The	-
Aidas Electric, Ltd	ix	Federation of Coated Macadam Industries		Morris, Herbert, Ltd	-
Anderson, C. F., & Sons, Ltd	viii	Ferguson, Edwards & Co. (London), Ltd.	-	Morr.s, William & Co. (Westminster) Ltd.	xlv
Ashley Accessories, Ltd	lii	Ferodo, Ltd.		Mumford Bailey & Preston, Ltd	Alt
Automatic Telephone & Electric Co.,	114	Floor Renovations, Ltd	lix	Negus, W. & M., Ltd.	100
	es roll				111
Ltd	xvi	Fordham Pressings, Ltd	111	Newman, Wm., & Sons, Ltd	-
Baldwin, Son & Co., Ltd	111	Foyles	lix	North British Rubber Co., Ltd	-
Bath Cabinet Makers & Arterafts, Ltd.		Freeman, Joseph, Sons & Co., Ltd		Oliver, Wm., & Sons, Ltd	-
Belling & Co., Ltd	xxvi	Fyvie Gate Co., Ltd		Paragon Glazing Co., Ltd	-
Birmabright, Ltd	xxi	Gascoigne, The Geo. H., Co., Ltd	lix	Parnall, George, & Co., Ltd	-
Blackburn, Thomas, & Sons, Ltd	XX	Gillett & Johnston, Ltd	lii	Precision Roofs, Ltd	
Bone, Connell & Co., Ltd.	lxi	Greenwood's & Airvac Ventilating Co.,	***	Pyrotenax, Ltd.	xliv
Booth, John, & Sons (Bolton), Ltd	100	Ltd.	lxi	Radiation, Ltd.	
Bradbury, Joseph, & Sons, Ltd.	vi	Caldish a Dana & Co. Landon TA3			
	VI	Griffiths Bros. & Co., London, Ltd	xlii	Range Boilers, Ltd.	xlii
Braithwaite & Co., Engineers, Ltd		Gyproc Products, Ltd	vii	Rentrew Foundries, Ltd	-
Bratt, Colbran, Ltd	xxxvi	Hammond & Champness, Ltd		Reparations & Steam Brush Co., Ltd	-
Briggs, William, & Sons, Ltd	xlvi	Harvey, G. A., & Co. (London), Ltd		Ronuk, Ltd	xlviii
Brightside Foundry & Engineering Co.,		Helliwell & Co., Ltd		Sadd, John, & Sons, Ltd	
Ltd	xxviii	Henderson, P. C., Ltd.	lvii	Sankey, J. H., & Son, Ltd	XV. XXII
British Aluminium Co., Ltd., The		Higgs & Hill. Ltd.	2711	Schori Mctallising Process, Ltd	
British Steelwork Association, The					YIAH
	-	Holden & Brooke, Ltd.		Secomastic, Ltd	-
British Trane Co., Ltd		Hollway, W. F., & Brother, Ltd	xvi	Semtex, Ltd	
Broadcast Relay Service, Ltd	xxxix	Hope, Henry, & Sons, Ltd		Service Electric Co., Ltd	
Bromsgrove Guild, Ltd	x	Horseley Bridge & Thomas Piggott, Ltd.	xxxi	Sharman, R. W., Ltd	
Burn Bros. (London), Ltd	xliii	Horton Manufacturing Co., Ltd	xlvnii	Sharp Bros. & Knight, Ltd	lxi
Calders Ltd. 9	lviii	Ideal Boilers & Radiators, Ltd	-	Sissons, W. & G., Ltd	1
Cargo Fleet Iron Co., Ltd	xxix	Ilford, Ltd		Smith, E. H. (Croydon), Ltd	
Cariton Metal Moulding Co., Ltd	xlix	Imperial Chemical Industries, Ltd		Southern Lime Assoc., The	
Cement Marketing Co., Ltd.	201126	Industrial Engineering, Ltd.		Spiral Tube & Components Co., Ltd	
Cheecol Processes, Ltd.	-				
	XXV	International Correspondence Schools		Staines Kitchen Equipment Co., Ltd	
Cheshire Woodcraft, Ltd		Jenkins, Robert, & Co., Ltd		Stent Precast Concrete, Ltd	
Chloride Electrical Storage Co		Jenson & Nicholson, Ltd	-	Sundeala Board Co., Ltd	XXX
Clarke & Vililant Sprinklers, Ltd		Jones, Samuel, & Co., Ltd		Symons, R. J., Ltd.	lix
Clifford Aero & Auto, Ltd	xlviii	Key Engineering Co., Ltd	xlviii	Tarmae, Ltd.	
Colt, W. H. (London), Ltd	111	Kieft, Cyril, & Co., Ltd		Tentest Fibre Board Co., Ltd	
Copperad, Ltd	xii	King, George W., Ltd.	iv	Thermovent Heater (E. K. Cole), Ltd	
Copper Development Assoc		Laing, John, & Son, Ltd.	lxii	Thorp, John B.	
Courtney, Pope, Ltd.		Lead Industries Development Council	12.11	Tretol, Ltd.	
Crittall Manufacturing Co., Ltd			xl	Manualton & Vouna (Lighting) Ltd	XIII
		Leatherflor, Ltd.		Troughton & Young (Lighting), Ltd	
Crittall. Richard, & Co., Ltd.	xviii	Limmer & Trinidad Lake Asphalte Co.	xiv	True Flue, Ltd.	
Croft Granite, Brick & Concrete Co., Ltd.		Lloyd Boards, Ltd.	lxi	Trussed Concrete Steel Co., Ltd	
Denny, Mott & Dickson, Ltd		Loft Ladders Ltd	liii	Turner's Asbestos Cement Co., Ltd	
Design Group, Ltd., The	1	Mackay Agencies, Ltd		Tylers, Ltd	xxii
Doulton & Co., Ltd.		Mallinson, William, & Sons, Ltd	xli	Uni-Seco Structures	
Dowsett Engineering Construction, Ltd.	xlvii	Mavitta Drafting Machines, Ltd	1	United Steel Companies, Ltd	
Dreadnought Fireproof Doors (1930), Ltd.		McArd, Robert, & Co., Ltd.		Venesta, Ltd.	
		McClall & Clar (Clar (Dalla) T.4.1	XXXII		
Drynamels, Ltd.	li	McCall & Co. (Sheffield), Ltd	9.0	Vulcanite, Ltd	
Electrical & General Accessories (Leices-		McCarthy, M., & Sons, Ltd	lix	Wadsworth, Wm. & Sons Ltd	
ter), Ltd	xlvi	McNeill, F., & Co., Ltd	xlix	Walpamur Co., Ltd., The	
Electrolux, Ltd.	xxvii	Metallic Seamless Tube Co., Ltd	v	Wardle Engineering Co., Ltd	
Ellison, George, Ltd	lix	Midland Joinery Works, Ltd	lix	West, A., & Partners, Ltd	lix
English Joinery Manufacturers Assoc	xxxiii	Miles Martin Pen Co., Ltd	-	Wheatly & Co., Ltd	
En-Tout-Cas Co., Ltd	lx	Mills Scaffold Co., Ltd	ii	Willeox, W. H., & Co., Ltd	
Etchells Congdon & Muir, Ltd		Milners Safe Co., Ltd.	4.5	Windshields of Worcester	
and the same of th				Transport of the state of the s	3
**					

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property and Land Sales see pages | iv. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17. | 17

EN-TOUT-CAS

Largest Makers in Great Britain for

HARD LAWN TENNIS COURTS, SPORTS & RECREATION GROUNDS, PUBLIC PARKS, etc.
(Bulk levelling with heavy mechanical tools can be reometly undertaken)

Sole. Makers of CARTERS' SQUASH COURTS (when permits available)

Makers of

SPORTS PAVILIONS, GARDEN HOUSES, GARDEN & PARK FURNITURE (when permits available)

LAWN TENNIS BALLS (Hard & Grass Court), SPORTS ACCESSORIES, and CHAIN LINK FENCING of all kinds.

TEMPORARY and PERMANENT PREFABRICATED HOUSES, FACTORIES, BUILDINGS, ETC.

(750,000 prefabricated sections made to date)

OPENCAST COAL MINING (200,000 tons delivered to date)

GRASS SEEDS, Special TURF FERTILISERS (Analysis of soil)

All enquiries to:



Hard Courts made with Semi-loose or Nonattention surfaces.



THE EN-TOUT-CAS CO. LTD.

SYSTON Nr. LEICESTER
Telephone: Syston 86177 (3 lines)



London Office in Fortnum and Mason's Sports Dept. (3rd Floor) 182, Piccadilly, W.I. Telephone Nos.: Regent 0141-0142 PAGE

Ziv

Xiiv

Xxxiv

Xiii

Xiviii

Xiviii

Xxxiv

Xiii

Xxxiv

Xiii

Xxxiv

Xxxiv