ARCHITEC



andard

contents

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

VEWS and COMMENT

stragal's Notes and Topics

etters

Vews Diary

ocieties and Institutions

TECHNICAL SECTION

nformation Sheets nformation Centre

urrent Technique

Working Details

Duestions and Answers

Prices

The Industry

BUILDING CURRENT

Major Buildings described:

Details of Planning. Construction,

Finishes and Costs

Buildings in the News

Building Costs Analysed

Architectural Appointments

Wanted and Vacant

[Vol. 127

ARCHITECTURAL PRESS , 11 and 13, Queen Anne's Gate, Westminster, 'Phone: Whitehall 0611

Price 1s. od.

Registered as a Newspaper.

glossary of abbreviations of Government Departments and Societies and Committees kinds together with their full address and telephone numbers. The glossary is pub-*A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ig one week, Ih to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

Institution of Heating and Ventilating Engineers. 49, Cadogan Square. Sloane 1601/3158 IHVE

Incorporated Institute of British Decorators and Interior Designers.

100, Park Street, Grosvenor Square, W.1.
Institute of Landscape Architects, 2, Guiltord Place, W.C.1. IIBDID Mayfair 7086 Holborn 0281

I of Arb Institute of Arbitrators. Hastings House, 10, Norfolk Street Temple Bar 4071 Strand, W.C.2. Institute of Builders. 48, Bedford Square, W.C.1 Institute of Builders. 48, Bedford Square, W.C.I.

Institute of Quantity Surveyors. 98, Gloucester Place, W.1.

Welbeck 1859
Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
Institute of Registered Architects. 47, Victoria Street, S.W.1.

Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.

Lead Development Association. 18, Adam Street, W.C.2.

Whitehall 4175
London Master Builders' Association. 47, Bedford Square, W.C.1.

Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1.

Whitehall 7264/4175 Museum 7179 IQS IR IRA

LDA LMBA Whitehall 7264/4175

Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1. Trafalgar 7711
Ministry of Education. Curzon Street House, Curzon Street, W.1. Mayfair 9400
Ministry of Health. 23, Savile Row, W.1. Regent 8411
Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300 MAFF MOE MOH MOHLG Ministry of Labour and National Service, 8, St. James' Square, S.W.1. Whitehall 6200 Ministry of Labour and National Service, 8, St. James' Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, W.C.2. Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494 Ministry of Works. Lambeth Bridge I 'ouse, S.E.1. Reliance 7611 Natural Asphalte Mine Owners and M. nufacturers Council. 94/98, Petty France, S.W.1. Abbey 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813 National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1. Welbeck 0619 National Fundovers Federation of the Mastic Asphalt Industry. MOLNS MOS MOT MOW

NAMMC NAS **NBR**

NCBMP NEFMAI National Employers Federation of the Mastic Asphalt Industry

21, John Adam Street, Adelphi, W.C.2. Trafalgar 3927
National Federation of Building Trades Employers. 82, New Cavendish Street,
W.1. Langham 4041/4054 NFBTE

National Federation of Building Trades Operatives. Federal House, **NFBTO** Cedars Road, Clapham, S.W.4. Mac National Federation of Housing Societies. 12, Suffolk St., S.W.1. Whi National House Builders Registration Council. 58, Portland Place, W.1. Macaulay 4451 Whitehall 1693 NFHS

NHBRC Langham 0064/5 NPL National Physical Laboratory. Head Office, Teddington. Molesey 1380 Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3. NRDB

Mansion House 9383 NSAS National Smoke Abatement Society. Palace Chambers. Bridge Street, S.W.1. Trafalgar 6838

National Trust for Places of Historic Interest or Natural Beauty.

42, Queen Anne's Gate, S.W.1. Whitehall 0.

Political and Economic Planning.
Reinforced Concrete Association.

Royal Incorporation of Architects in Scotland.

15, Rutland Square, Edinburgh. NT Whitehall 0211 PEP Whitehall 7245 Abbey 4504 RCA RIAS

Fountainbridge 7631 Langham 5533 Royal Institute of British Architects. 66, Portland Place, W.1. Langh Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. RIBA RICS

Whitehall 5322/9242 Whitehall 3935 Royal Fine Art Commission. 5, Old Palace Yard, S.W.1.
Royal Society. Burlington House, Piccadilly, W.1.
Royal Society of Arts. 6, John Adam Street, W.C.2.
Royal Society of Health. 90, Buckingham Palace Road, S.W.1.
Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. RFAC Regent 3335 RS RSA Trafalgar 2366 Sloane 5134 RSH Wimbledon 5101 RIB

Society of British Paint Manufacturers. Grosvenor Gardens House, **SBPM** Grosvenor Gardens, S.W.1. Victoria 2186 Society of Engineers. 17, Victoria Street, Westminster, S.W.I. Abbey 7244 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.

SFMA Mansion House 3921 Society of Industrial Artists. 7, Woburn Square, London, W.C.1.

SIA Langham 1984/5 Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616 SIA SNHTPC

Scottish National Housing. Town Planning Council.

Hon. Sec., Robert Pollock, Town Clerk, Rutherglen
Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. SPAB Holborn 2646

TCPA Town and Country Planning Association. TDA TPI

Town and Country Planning Association.

28, King Street, Covent Garden, W.C.2.

Timber development Association. 21, College Hill, E.C.4.

Town Planning Institute. 18, Ashley Place, S.W.1.

Timber Trades Federation. 75, Cannon Street, E.C.4.

War Damage Commission. 6, Carlton House Terrace, S.W.1.

Zinc Development Association. 34, Berkeley Square, W.1.

Temple Bar 5006

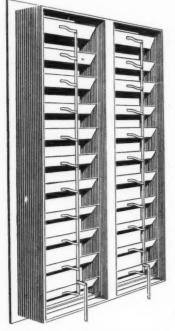
City 4771

Victoria 8815

City 5040

Whitehall 4341

Grosvenor 663 TTF WDC ZDA



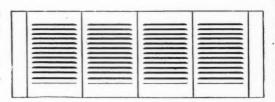
EENWOOD'S

VENTILATION for Industry LOUVRES OF ALL SIZES

Greenwood's extensive range, which includes heavy and light duty ventilators, fixed or movable, in all sizes in steel or aluminium, are designed for all industrial or domestic requirements. With mullions to form multi-bank panels the heavy duty ventilators can be specified for the largest contemporary industrial premises.

(Left) A typical double banked Greenwood's Heavy Duty Movable Louvre.

(Right) Type LH 'Maxaire' Multi-louvred Panel with 3" flange.



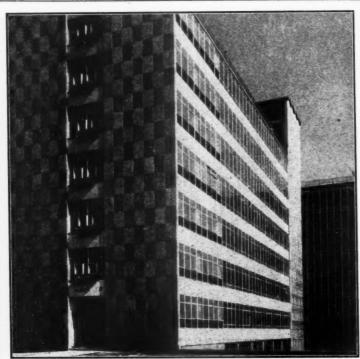
AND

c *ventilation* VENTILATING COMPANY

AIRVAC Patentees, Designers and Manufacturers of Ventilating Equipment and Electrical Conduit Systems



BEACON HOUSE, KINGSWAY, LONDON, W.C.2. CHAncery 8135 (4 Lines) 'Grams: 'Airvac', London

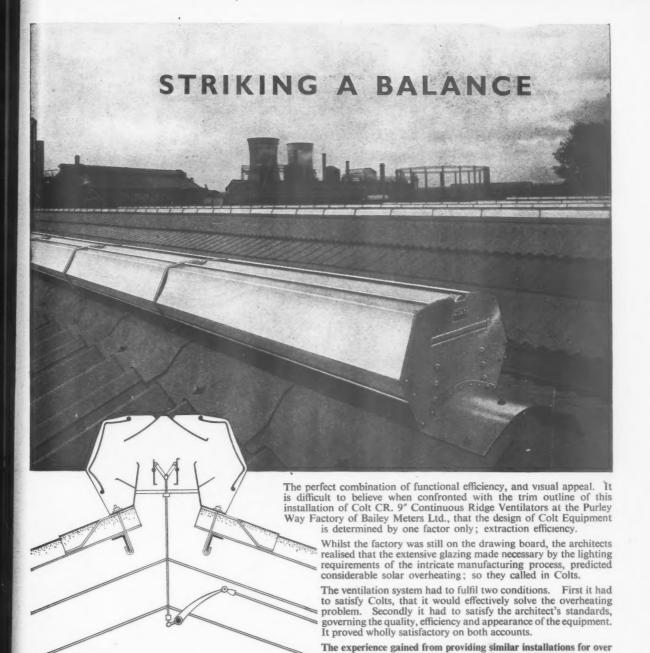


Vinculum Exposed Aggregate Panels at the Flatted Factory-Dartmouth Street, Birmingham. Philip Skelcher and Partners, Chartered Architects.

Exposed Aggregate

ETTINGSHALL WOLVERHAMPTON phone: Bilston 41101.





Colt 9" Continuous Ridge Ventilators at Bailey Meters and Controls Ltd., Croydon, Surrey. Architect: Reginald Lone, F.R.I.B.A., F.R.I.C.S., F.R.San.I.

your particular requirements. Let Colts solve YOUR problem. Send for Free Manual on Colt Ventilation to Dept. L11/5C





COLT VENTILATION LTD · SURBITON TELEPHONE: ELMBRIDGE 6511 (10 lines)

10,500 industrial organisations, is at your disposal. Whatever your problem, Colts have solved a hundred or so similar, and our Tech-

nical Staff are always at hand to adapt this accumulated knowledge to suit

U.S.A. Subsidiary: Colt Ventilation of America, Inc., Los Angeles.

Branches at: Birmingham, Bradford, Bridgend (Glam), Bristol, Dublin, Glasgow, Leamington Spa, Liverpool, London, Manchester, Newcastle-upon-Tyne and Sheffield.

• Agents in: Australia, Belgian Congo, Belgium, Burma, Canada, Cyprus, India, Indonesia, Madagascar, Malaya, Mauritius, New Zealand, Pakistan, Portugal, Rhodesia and Nyasaland, South Africa, and West Indies.

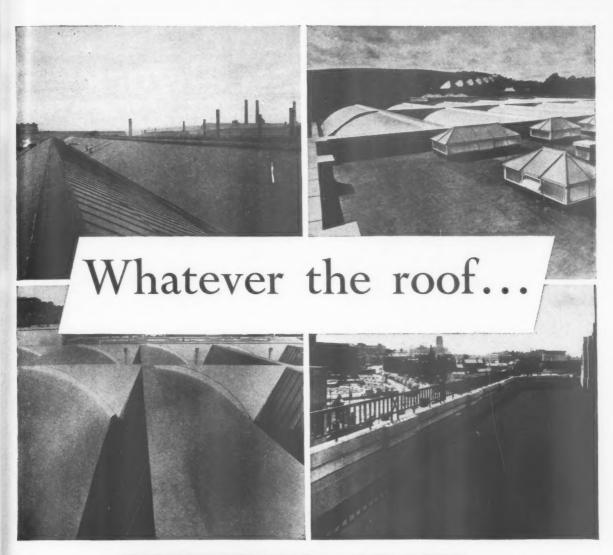


Richard Crittall

ENGINEERS FOR HEATING

BRISTOL Bristol 33062

RICHARD CRITTALL & COMPANY LTD. 151 GREAT PORTLAND STREET, LONDON, W.1.





WILL WATERPROOF IT

- - * Foreman demonstrators are available to assist your own workpeople or, if you prefer, our contracts department can undertake the work for you

A PRODUCT OF

W.1



OF STAFFORD

ROOF WATERPROOFING . CONCRETE ADMIXTURES & HARDENERS . PROTECTIVE PAINTS - AND BITUMINOUS COATINGS . GAP & JOINT SEALING MASTICS & GUNS . INDUSTRIAL ADHESIVES

* SEND FOR LITERATURE EVODE LTD. (BUILDING CHEMICALS DIVISION) STAFFORD. Phone: 2241

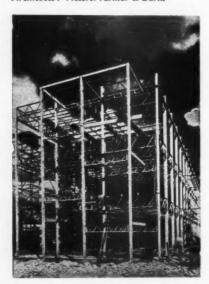
London Office: I VICTORIA STREET, S.W.I. Telephone: ABBey 4622

M-W.66

structural steelwork

THE BOWATER PAPER CORPORA-TION LIMITED. The Architects for the new Office Blocks at both Mersey and Northfleet designed for Lattice Steelwork on a modular grid which allowed service lines to be run between floor and ceiling and gave complete flexibility for internal arrangements.

Architects: Messrs. Farmer & Dark.



YORK. For the City of York a Grammar School. Sommerfelds designed the Steelwork on a 3ft. 4in. modular grid allowing complete freedom for the Architect to use curtain walling and internal arrangements.

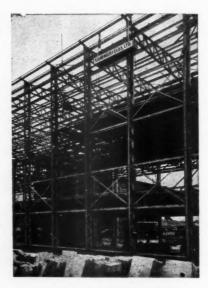
Architect: E. Firth, F.R.I.B.A., A.M.T.P.I., City Architect.





B:E.A. For this B.E.A. Building, speed was the essence of the Contract. Sommerfelds designed the Steelwork and from unloading the first lorry on site to the completion of a 250 ton steelwork erection took three weeks.

General Contractors: Messrs. Richard Costain Limited.



I.C.I. For I.C.I. a Laboratory Block. A multi-storey building with a height to eaves of 44ft. and uninterrupted spans of 50ft. on each floor. Deep Lattice Beams and light stanchions were used with considerable saving in steel requirements.

Architects: Messrs. J. Douglass Matthews & Partners.

Sommer telds LTD. WELLINGTON SHROPSHIRE TEL 1000 London Office: 167 VICTORIA S' S W I TEL VIC 8843 AND 1000



dusty concrete?

SPECIFICATION

First Day

Pour the Cementone No. 5 Liquid evenly over the surface of the paving, if necessary a watering can with a fine rose, can be used for distribution. Sweep the liquid backwards and forwards to ensure even saturation and avoid forming puddles.

Second Day

Apply a further coat as before. Two coats should suffice, but if the floor is abnormally dusty and porous a further coat is advisable applied 24 hours after the second coat.

Third Day

Swill the floor down with clean water and brush well.

There are many causes of 'dusting' in concrete floors, but unless the floor is physically unsound and weak throughout when no surface treatment will be satisfactory, the cure is delightfully simple. Merely brush on Cementone No. 5 Liquid Concrete Floor Binder and, within hours, the floor will be transformed into a hard durable surface.



number

concrete floor binder

YOU CAN DESEND ON THE EMPENTONE

PRODUCTS

specially made for the job

Obtainable from your local Cementone stockist or from

JOSEPH FREEMAN SONS & CO. LTD., CEMENTONE WORKS, WANDSWORTH, LONDON, S.W.18 Telephone: VANdyke 2432 (10 lines)





Only a child's description but how well it fits the modern escalator which with its invisible mechanism can carry up to 8,000 persons per hour from one enchanting scene to another, quietly, safely and smoothly!

Shown here is a "U" type installed for Messrs. Bearmans of Leytonstone. With a capacity of 7,000 persons per hour it has deckings and mouldings in silver-satin-finished aluminium alloy and inner panels of dimpled aluminium sheet, gold anodised.

J. & E. HALL LIMITED

ESCALATOR, LIFT & REFRIGERATION ENGINEERS

DARTFORD · KENT Tel: DARTFORD 3456



1952

FEB (Great Britain) Ltd., invented Febmix Admix, the first resin based liquid mortar plasticiser.

1955

FEB invented Febspeed Plus, the first plasticising frost and waterproofer for concrete and cement work.

THEN IN
1956

FEB invented Febtone, the first plasticising colours for cement.

NOW

IN 1958

FEB are first again with a resin based

Febmix DeHydrated is not a substitute for our well-known Febmix Admix mortar plasticiser but is an alternative for those who prefer a mortar plasticiser in powder form. Supplied in I lb., 5 lb., 45 lb., and 200 lb. kegs with containers free and non-returnable, it is the cheapest mortar plasticiser available on the market today. As with our Febmix Admix liquid-type plasticiser, its use eliminates lime and allows a reduction in cement content, thus reducing mortar material cost, while labour costs are also reduced by the Improved workability of the mortar.

plasticiser for mortar in powder form.

FEBMIX DEHYDRATED

FEB

(GREAT BRITAIN) LTD.

102 Kensington High Street, London, W.8.
Albany Road, Chorlton-cum-Hardy, Manchester 21.

WES 0444 CHO 1063

D/6628

AP 94

'KEY cut my drain laying costs by 28%'

says Major J. H. HACKETT

Director of Hackett (Builders) Limited, Norwich

'A job which would have taken several weeks by traditional methods was completed in under a week with Key Pitch Fibre pipes', says Major J. H. Hackett, of Hackett (Builders) Limited. 'In this time, the entire main sewage pipe to a new estate was laid by a team of only three men. Labour costs for laying and jointing were cut from 1/2d. to 1\(\frac{1}{4}\)d. per foot run. The need for concrete bedding was completely eliminated. With performance at least the equal of best quality materials used by former methods, Key pipe gave me an overall saving of at least 28% on the job'.

Key Pitch Fibre pipes, which were supplied to Hackett (Builders) Limited by Robert R. Ruymp & Son Ltd., Norwich, through B. Finch & Co. Ltd., Essex, (Key distributors), are cutting costs on all the building sites of this company. They are also providing a far more effective answer to the problems of an area with exceptionally bad conditions of loose earth and subsidence. This modern form of drainage could bring equivalent or even greater advantages in performance, economy and speed of laying in your own building projects.

FULLY APPROVED

Key pipes comply with the requirements of B.S. 2760, 1956, and carry the B.S.I. 'Kite' mark.

NO CRACKING THROUGH SETTLEMENT

The resilience of pitch fibre pipes eliminates cracking under normal conditions of earth settlement, making bedding concrete unnecessary.

SIZES AND FITTINGS

2, 3, 4, 5 and 6 in. sizes. 4 and 6 in. diameters are supplied in 8 ft. lengths, other diameters in 5 ft. 6 in. lengths. Easily coupled to conventional drainage fitments.



Major J. H. Hackett handling Key Pitch Fibre pipe on one of the building sites of his company.

SPEEDING THE JOB - CUTTING THE COST

500 feet per hour is a modest rate for laying Key Pitch Fibre pipes and the simple jointing system ensures 'all weather' laying. With no cement to dry out, completed drains can be tested and trenches backfilled immediately. When you add laying costs to pipe costs, together with other site advantages, KEY means an overall economy compared with other drainage systems.



FIT IT



TAP IT



TEST IT



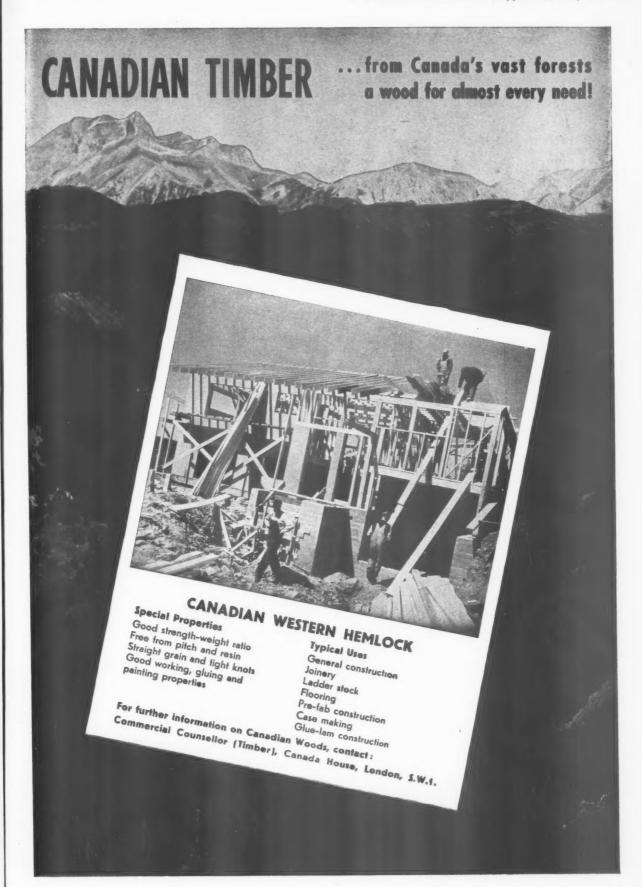
Get to know more about



PITCH FIBRE PIPES

A product of the KEY ENGINEERING COMPANY LIMITED Larkfield, Near Maidstone, Kent. Telephone: Maidstone 7461 and 7233







standard kitchen units

with a quality guarantee

Send for our fully descriptive

catalogue

quality standard joinery



Windows
Doors
Stairs
Kitchen Fitments

BOULTON AND PAUL

agents for NACOSUN SASH louvre windows

BOULTON AND PAUL LIMITED RIVERSIDE WORKS NORWICH



Photograph reproduced by courtesy of Allon & Hanburys Ltd. Photograph: Architectural Press Lad.

EVERY BUILDING SHOULD BE AS SAFE AS THIS

Allen & Hanburys new Laboratories at Ware are really safe. They have the latest A.F.A. fire alarm system which, with its sensitive detectors in all parts of the building and the direct connection to the works fire station, will automatically call the brigade to the smallest outbreak within minutes.

The A.F.A. system, approved by Fire Officers and qualifying for valuable insurance rebates, is fully described in our book "If you had a fire tonight."

Please send for your copy.



AUTOMATIC FIRE DETECTION

ASSOCIATED FIRE ALARMS LIMITED

Claremont Works, Claremont Road, London, E.17

Telephone: Larkswood 8373

Branches throughout Great Britain

TAS/AF74

ee





room. And, of course, the heating is inconspicuous, for Crane panels take the place of the normal skirting. So obviously it does not hamper your design but leaves the wall and floor space completely free. Here are three noteworthy advantages of this latest heating medium. One, you don't have to worry about space for heating units or unsightly lateral pipework-panels complete that part of the

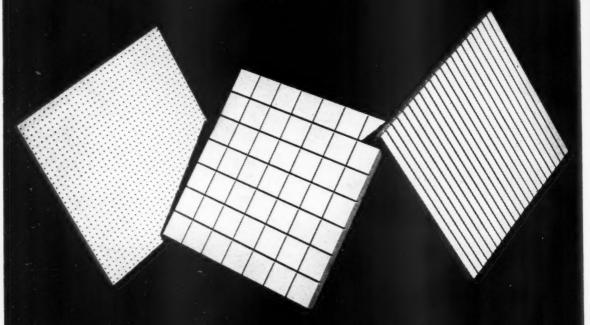
the most arduous duty. Three, installation is easy-ordering and fixing follows routine

There are two types of Crane Skirting Heating: Type R (Radiant) in 2' or 1' lengths, 6" or 9" high. Type RC (Radiant-Convector) in 2' or 1' lengths,9" high. New 9-inch Type R provides additional heating surface and blends perfectly with 9-inch Type RC.

CRANE Skirting heating system

CRANE LTD., 15-16 RED LION COURT, FLEET STREET, LONDON, E.C.4. WORKS: IPSWICH - LONDON SHOWROOMS: 118 WIGMORE STREET W.S. AND GREAT WEST ROAD, BRENTFORD, MIDDLESEX. BRANCHES: BIRMINGHAM, BRENTFORD, BRISTOL, GLASGOW, LONDON, MANCHESTER.

NEW LOOK



im ACOVSTICS!



Swiss pressed wood-fibre Perforated, Rilled and Chequered acoustic tiles and Rilled Boards 8 2" in length, all Factory Primed.



Contemporary acoustic wall and ceiling treatments in new and decorative materials.



High acoustic efficiency, absorption co-efficients increasing progressively from 0.45 at 250 c.p.s. up to 0.90 at 4,000 c.p.s.



Low thermal conductivity (0.35 B.T.U/in./sq.ft./hr./°F diff.) thus providing valuable heat conservation at no extra cost.

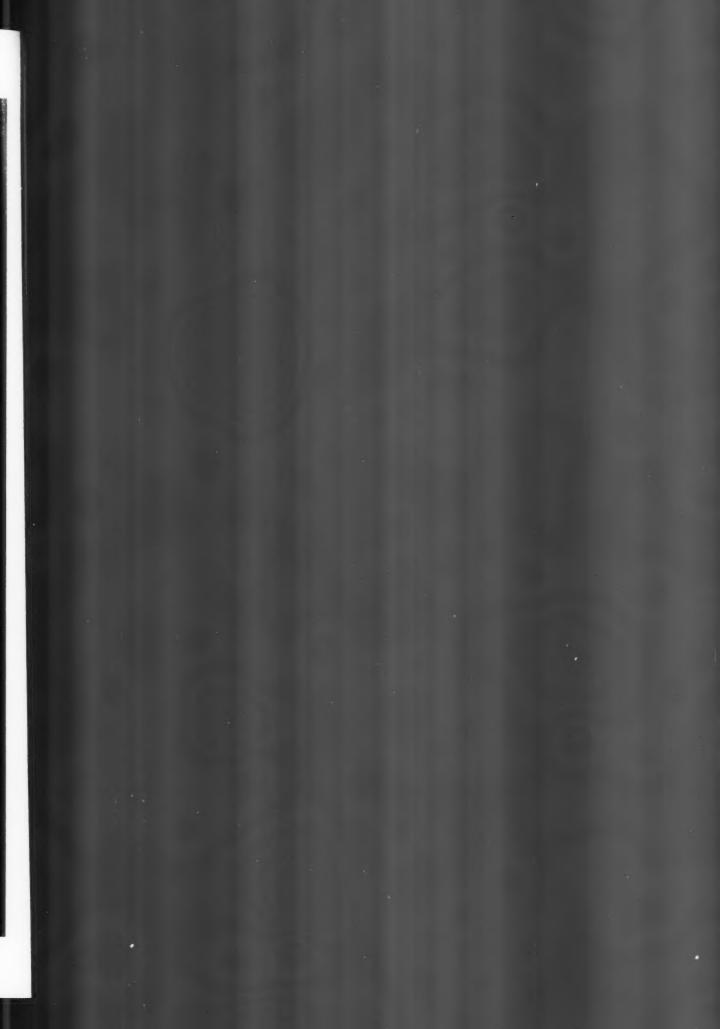
Surveys, estimates, designs & specifications without obligation

HERMESEAL



HERMESEAL ACOUSTICS LIMITED

HEAD OFFICE: 4 PARK LANE, LONDON, W.I. Telephone: GROsvenor 4324 (5 lines).





BRICKS AND DOMESTIC ARCHITECTURE

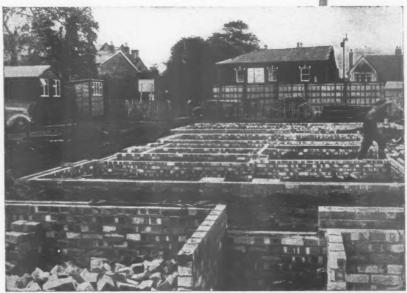
FLETTONS AND FOUNDATIONS

BELOW D.P.C.

In this country where frost rarely penetrates more than a few inches below ground and subsoil moisture conditions remain comparatively uniform the use of 'Phorpres' Flettons for footings is long established practice. Although bricks in

footings may be wet they are not subjected to long spells of frost.

Whilst calcium sulphate and magnesium sulphate are present in some soils and other soils are naturally slightly acid, these salts and acids have no effect whatsoever on properly burnt clay bricks. They can and do attack Portland Cement and some limes used in mortar and concrete. For this reason it is good practice in heavily contaminated soils to use sulphate resisting cement to avoid disruption of the mortar.



'Phorpres' Flettons being laid in foundations of the Birmingham Corporation Housing Development at Laurel Road, Handsworth, Birmingham

BETWEEN D.P.C. AND GROUND LEVEL

Practical experience has shown that 'Phorpres' Flettons are entirely suitable for use between D.P.C. and ground level.

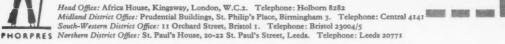
Although conditions might in theory seem more severe the building above D.P.C. undoubtedly affords some protection and the conditions obtaining are hardly those of 'extreme exposure' as defined by the Building Research Station.

No case of failure has ever been reported and 'Phorpres' Flettons are specified for foundations by many leading architects and over 400 principal authorities engaged in domestic architecture.



LONDON BRICK COMPANY LIMITED

in the service of the building industry





BY APPOINTMENT TO HER MAJESTY QUEEN ELIZABETH BRICK MAKERS



Architect: S. C. Clarke, F.R.I.B.A.

UTILE-the U-word for the U-wood

The panelling in the recently completed bar of Charrington's "Red Lion", Watling Street, E.C., is in solid Utile, a West African hardwood. (The counter, seen through our empty glass—thanks, we don't mind if we do—is Utile and Sycamore).

Utile is a close relation of the more familiar Sapele. If you're a Lifeman, you may like to know that its botanical name is *Entandrophragma utile*; if you want to be up-to-date on your finishes you really *need* to know about this and the other West African hardwoods.

vital facts on Utile

Colour: Varies from a lightish to a dark brown. Strength: Equivalent to Mahogany but harder.

Weight: About 40 lb./cu. ft. Resistance to decay: Good. Texture: Fairly close.

Workability: Good. Takes a high polish. Principal uses: Interior decoration. Panelling. Shopfitting. Furniture-making. Flooring. Boatbuilding. Other West African hardwoods include:

DAHOMA MAHOGANY
DANTA MANSONIA
EDINAM MAKORE
GUAREA OBECHE
IDIGBO SAPELE

UTILE



THE FOREMOST NAME IN TIMBER

For information on West African and other hardwoods consult J. GLIKSTEN & SON LIMITED

CARPENTERS ROAD, LONDON, E.15. Telephone: AMHerst 3300
Liverpool Office: 87 Lord Street, Liverpool, 2. Telephone: Central 7576
and Victoria Dock, Citadel St., Hull. Telephone: Hull 31144



Robertson Thain provide a COMPREHENSIVE BUILDING SERVICE embracing

WALL CLADDING ROOF DECK FLOORING VENTILATION and DAYLIGHTING

This Service reduces the problem of co-ordinating site activities during erection and by assuming UNDIVIDED RESPONSIBILITY for the finished result; safeguards the clients interests.

Modern construction, using contemporary building techniques, can achieve both speed of erection and attractive appearance. This fact has been emphasised in the new Chance-Pilkington Works recently erected in the North of England to designs by the Architects, Ormrod & Partners.

The vertical areas are clad with Robertson site-assembled Q-PANEL type QSA; the flat roof construction is of Robertson Q-DECK with built-in Robertson DECKLIGHTS to provide well-distributed daylighting and ventilation is by highly-efficient ROBERTSONRIDGE ventilators.

ROBERTSON
Q-PANEL
TRADE MARK

write today for descriptive literature

Manufactured by

Telephone: Ellesmere Port 3622/9
Telegrams: "ROBERTROOF"

ROBERTSON THAIN LIMITED . Ellesmere Port . Wirral . Cheshire

Sales offices: BELFAST · BIRMINGHAM · CARDIFF · EXMOUTH · GLASGOW · LIVERPOOL · LONDON · MANCHESTER · NEWCASTLE · SHEFFIELD

Associated Companies or Agents in most countries throughout the world





Be at peace . . .

The demand for noise reduction is now a major factor in the design and construction of modern buildings. Leading architects everywhere are finding that the Armstrong range of Acoustic tiles can solve their problems of sound-conditioning and achieve new and pleasing decorative effects, simply and economically.

Travertone, a mineral wool tile, with Class I Firerating combines high sound absorption with exceptional light reflection. The fissured surface provides a distinctive and attractive finish. Made in $12'' \times 12''$ and $12'' \times 24''$ tiles $\frac{3}{4}''$ thick, square or bevel edged.

Corkoustic, an all cork tile, particularly suitable for high humidity areas. With good sound absorption, it provides excellent thermal insulation and its flexibility makes it ideal for arched or vaulted ceilings. Available in $12^{\prime\prime} \times 12^{\prime\prime}$ tiles, $1^{\prime\prime}$ thick with plain or striated finish.

Perforated Fibre Tile, is made from wood-fibre board and gives a high noise absorption rate over a wide range of frequencies. Standard or random perforations give interesting decorative effects. Available in 3 sizes— $12^{\circ} \times 12^{\circ}$, $12^{\circ} \times 24^{\circ}$, $24^{\circ} \times 24^{\circ}$ and in thicknesses of $\frac{3}{4}^{\circ}$ and $\frac{1}{2}^{\circ}$.

Installation in existing or projected buildings is undertaken by approved acoustic tile fixers and Armstrong's Acoustic Contracts Dept.; their Technicians are always at your disposal.

Armstrong ACOUSTICAL CEILINGS

Armstrong Cork Company Ltd. Acoustics Department, Kingsbury, London, N.W.9. Colindale 7080

B.B.C. TELEVISION CENTRE

WOOD LANE, W.12

Second Stage Development

DEVELOPMENT OF THE NEW B.B.C. TELEVISION CENTRE IS BEING CARRIED OUT UNDER THE DIRECTION OF GRAHAM DAWBARN, ESQ., C.B.E. (NORMAN & DAWBARN), ARCHITECT in association with

M. T. TUDSBERY, ESQ., C.B.E. (THE CONSULTING CIVIL ENGINEER TO THE B.B.C.) GENERAL CONTRACTORS - MESSRS. HIGGS & HILL LTD.

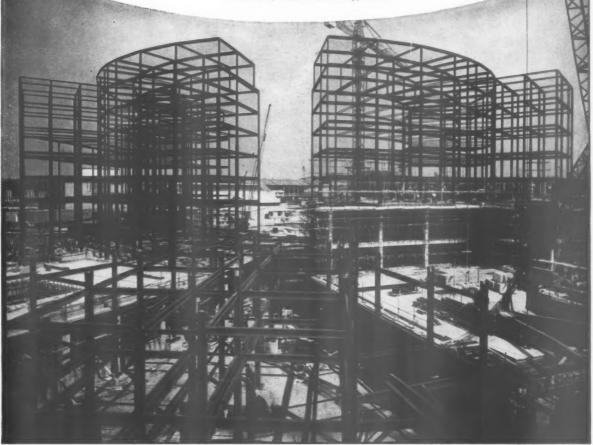
Steelwork Fabricated and Erected by

Head Office Wood Lane, London, W.12



South Wales Office Bute Street, Cardiff Tel: Cardiff 28786

Works: Shepherds Bush, London. Neasden, Middx. Treorchy, Glam.





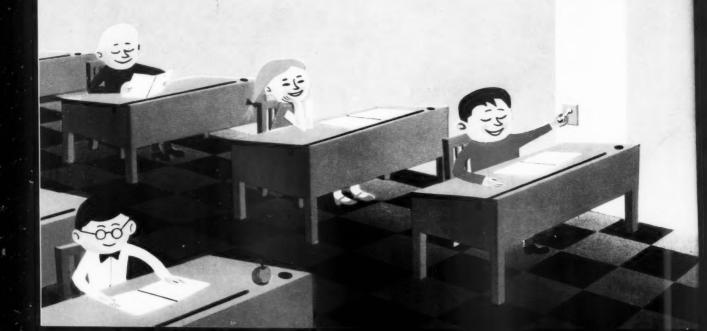
open the window Richard...

When it is a Teleflex Remote Control it's child's play—whether in school, office or factory. The Teleflex system of mechanical remote control, long used in other applications, has been an outstanding contribution to modern building practice. It is neat, flexible, and easily operated. Control cables can be enclosed within the wall, neat wall plates with removable handles being the only visible parts.

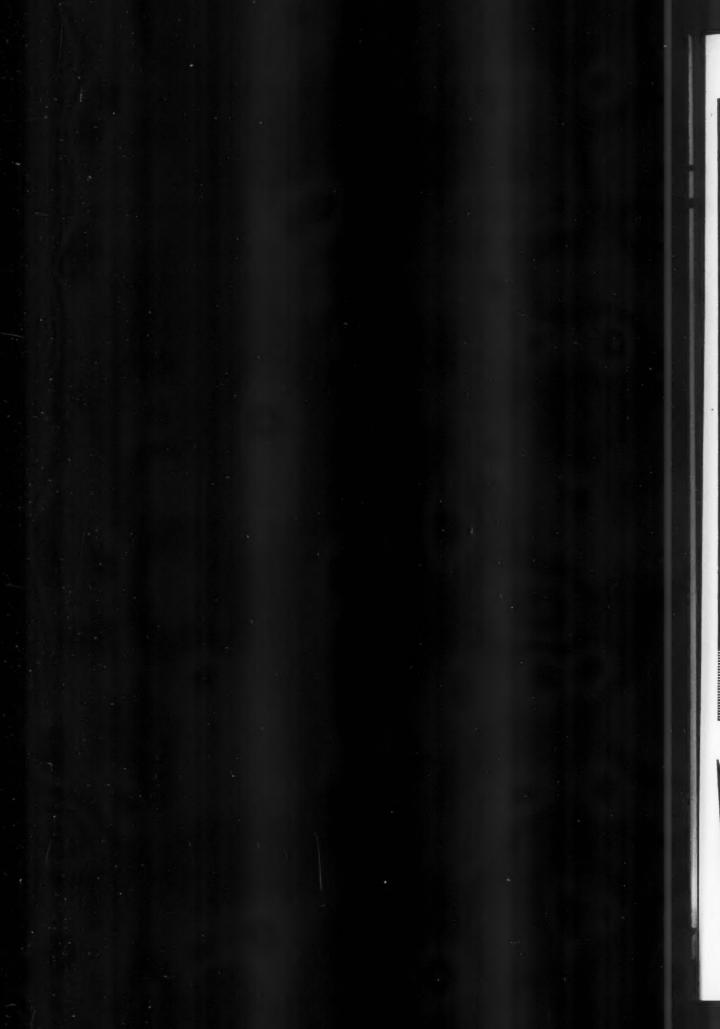
window & ventilator remote control

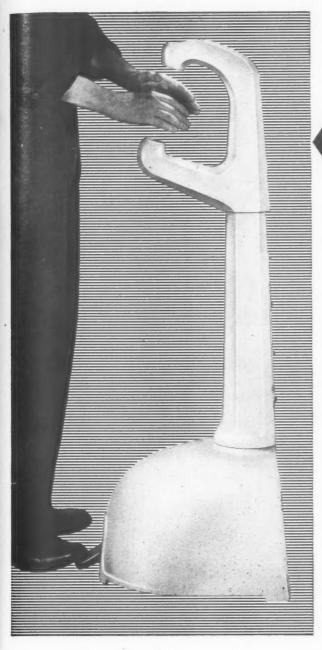
TELEFLEX PRODUCTS LIMITED BASILDON ESSEX

TELEPHONE: BASILDON 22861 (10 LINES) TELEGRAMS TELEFLEX PHONE BASILDON









"hand dries"

for one unit of electricity

Harmonising in style with the layout and appointments of the modern washroom, 'ENGLISH ELECTRIC' Hand-Driers are complete in themselves.

No other fittings on the walls or receptacles on the floor are required. There is nothing to change or replace and the equipment itself requires no attention.

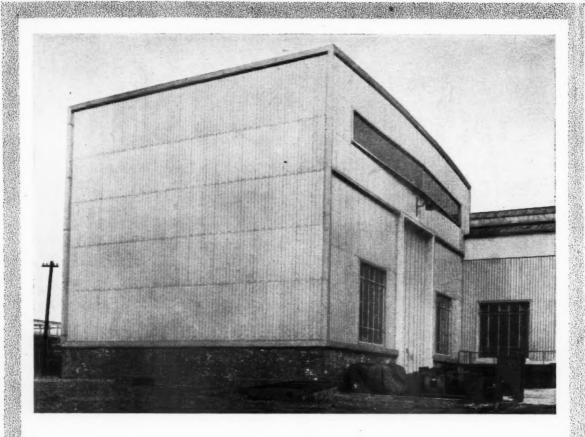
Economical in every way, these hand driers usually pay for themselves within a year of installation. Thereafter, years of trouble-free service create substantial savings in hand-drying costs.

ENGLISH ELECTRIC' hand-driers

THE ENGLISH ELECTRIC COMPANY LIMITED, MARCONI HOUSE, STRAND, LONDON, W.C.2

F.H.P., Motors Department, Bradford

HD.8 WORKS: STAFFORD . PRESTOP . RUGBY . BRADFORD . LIVERPOOL . ACCRIMETES



Factory extension in British Aluminium

Dialindre Double Skin Aluminium Sheeting was used for cladding the factory extension of The Lapointe Machine Tool Co. Limited.

The Dialindre System, designed, developed and erected by Freeman, Morrison Limited, uses two kinds of Rigidal Mansard Sheeting spaced 2" apart, and can be fixed to a conventional steel structure to provide efficient insulation.

'Architects: Messrs Welch & Lander, F./F.R.I.B.A.



The BRITISH ALUMINIUM Co Ltd

NORFOLK HOUSE ST JAMES'S SQUARE LONDON SWI

Duramel

...the modern material for modern homes

A typical application of Duramel is seen in contemporary fittings such as the dining recess cupboard unit illustrated. Designed and manufactured by Messrs. D. Barker & Sons Ltd., of Swinton, Manchester, the unit forms a handsome and very practical division between kitchen and dining room in the 90 houses of a fine new private estate at Hazel Grove, Cheshire.

The shelves and worktop are of Duramel in the popular 'linen' pattern. This material provides extremely hygienic and hard-wearing surfaces admirably suited to modern functional requirements. In addition to its material qualities, Duramel is remarkably economical and its use can contribute appropriately to the reduction in prices the government have called for.



Contractor: Humphrey Park Estates Ltd., Urmston, Manchester. Duramel supplied through Barderal Distributors Limited, 305 Chorley Road, Swinton, Manchester. Tel: Swinton 2042.

In the Hazel Grove houses Duramel has played its part in keeping the selling price below $\pounds 2,000$, though the houses are unique in the extent of the cupboard fittings and have refrigerator, roof insulation and special heating stoves as well.

Duramel is a splendid material for a wide range of furniture and fittings. Why not write for samples and further information.

Duramel THE PLASTIC-FACED PLYWOOD

The Melamine Plastic surface is bonded to first-grade West-African plywood. It is waterproof, resistant to heat & acids, hygienic & wonderfully durable. Supplied in a range of colourful finishes, & plain white, in 3 standard thicknesses: \(\frac{1}{4}\), \(\frac{1}{4}\) & \(\frac{3}{4}\).

SIZES: 72" x 48", 84" x 48", 96" x 48", 36" x 24", 48" x 24".

For full details and the name of your nearest distributor write to the sole manufacturers:

F. HILLS & SONS LTD., NORTON ROAD STOCKTON-ON-TEES, TEL: STOCKTON 67141



Maxweld fabric

is manufactured by RICHARD HILL LIMITED (Established 1868)

Newport Wire and Rolling Mills, Middlesbrough, Yorkshire. Tel: Middlesbrough 2206

A MEMBER OF THE FIRTH CLEVELAND GROUP



new service for the ARCHITECT & DF

ARCHITECT & DESIGNER

Smiths Clocks and Watches Ltd. and English Clock Systems have combined to give a complete service to both Architect and Designer. All Wall Clocks in the new extensive Smiths and E.C.S. ranges together with 'specials' can now be ordered through the Architects' Service Department of English Clock Systems. Clocks can be either 'Sectric' or fitted with impulse movements for operation from E.C.S. Pendulum Master Clock.

Also available: the larger interior exterior clocks, advertising clocks, time recorders, bell signal clocks, watchman's clocks, time switches and process timers etc. In fact, the new Architects' Service Department can supply the complete range of timekeeping equipment required for factory, school or office.



'SPECIALS' SERVICE

In case there is not a suitable clock for the particular requirements from the wide range available we can now produce to Architects' own specification from 6" Wall Clocks to the largest Tower Clock.

BRANCH OFFICE & SHOWROOMS IN MANCHESTER, BIRMINGHAM GLASGOW & BELFAST

Mostyn SURFACE MOUNTED WALL CLOCK from the E.C.S. range. Black stroke chaplets on a circular white dial. Bar type hands. Hinged type case of spun aluminium. Standard finish in bronze (any colour supplied at small extra cost).

Dimensions: Dia. of face 9", 12". Overall dia: 1118", 1418". Projection from wall: 23" Flush fitting model FILEY—Cream or white finish—wall box supplied. Also BOSTON—Walnut finish Bakelite case—6", 9", 12" dials.

INFORMATION AND LEAFLETS FROM THE ARCHITECTS' SERVICE DEPT.

ENGLISH CLOCK SYSTEM

Head Office and Showrooms

179-185 GT. PORTLAND STREET, LONDON, W.I

Telephone: LANgham 7226

* A BRANCH OF THE CLOCK AND WATCH DIVISION OF



S. SMITH & SONS (ENGLAND) LTD

PLANTATION HOUSE
MINCING LANE · CHEAPSIDE
Architects:
Albert W. Moore & Son



ROMAN HOUSE · LONDON WALL

Architect:

R. N. Wakelin

of Campbell-Jones & Sons

THE ARCHITECTS' JOURNAL (Supplement) May 22, 1958

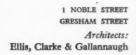


MERCERS' HALL · CHEAPSIDE
Architects:
Gunton & Gunton



HOLBORN VIADUCT HOUSE
HOLBORN CIRCUS

Architects:
T. P. Bennett & Sop





ROYAL LONDON HOUSE
(EXTENSION) FINSBURY SQUARE

Architect:
H. Bramhill

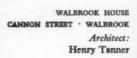


WATLING HOUSE · CANNON STREET

Architects:
Easton & Robertson



34-35 KING STREET · BC
Architects:
Alan W. Pipe & Sons





12-20 CAMOMILE STREET

Architects:

Fitzroy Robinson
& Hubert H. Bull



MCCANN-ERICKSON HOUSE FETTER LANE Architects: Hannen & Markham



THE ARCHITECTS' JOURNAL (Supplement) May 22, 1958

BUCKLERSBURY HOUSE

Architects:
Campbell-Jones & Sons



ST. BRIDGET'S HOUSE BRIDEWELL PLACE Architects: Trehearne & Norman Preston & Partners



SADDLERS' HALL • GUTTER LAND
Architect:
L. Sylvester Sullivan





THE AMALGAMATED PRESS
FARRINGDON STREET
Architects:
Ellis, Clarke & Gallannaugh



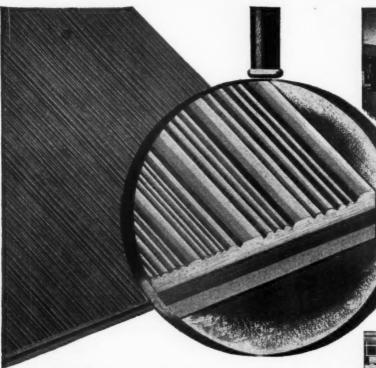
The city re-builds with...



BANK OF LONDON
& SOUTH AMERICA
QUEEN VICTORIA STREET
Architect:
Victor Heal

CRITTALL WINDOWS

THE CRITTALL MANUFACTURING CO LTD · BRAINTREE · ESSEX · BRANCHES & DEPOTS THROUGHOUT THE COUNTRY



WELDTEX

a new threedimensional plywood

BEAUTIFUL indeed are walls of Weldtex, Seaboard's newest plywood. The random-width vertical grooves softly diffuse the light and break up the wall surface in a pattern of delicately pencilled shadow-lines. Joints between panels are absolutely invisible. In restaurants, clubs, offices and shops it forms a friendly relaxing background. Bonded with water-proof glue, Weldtex is also a splendid exterior wall finish, impervious to sun, rain and snow. If your usual supplier does not stock Weldtex he can order it for you. Standard panels 8 x 4 feet, 1/26 inch thick.



Seaboard Lumber Sales Co. Limited, Seaboard House, Vancouver 1, Canada



SHOP INTERIORS



OFFICES



CLUBS



EXTERIOR WALLS

N. R. M. Morison, Esq.,
1-3 Regent Street,
London S.W. 1
Please send me free Weldtex folder (L1).
Name
Address
(Please print plainly)

Ur.-57-16-15

ARCH TANTS' JOURN L. (Shapleme t) May 22.

BRITISH STEEL CONSTRUCTION (WEDNESBURY) LTD.

WEDNESBURY · Tel.: 0204/5, 0701/2/3

HEAVY PRESS BAY for HIGH DUTY ALLOYS LTD. REDDITCH



fear of FIRE!

With OXYLENE BORAM Fire Retardant Coating which raises inflammable surfaces to Class I "surface spread of flame" (B.S. 476-1953).

OXYLENE BORAM can be overpainted or applied to painted surfaces without loss of fire retarding qualities. It gives real fire protection and is approved by Local and Fire Authorities.

Free Technical Service.
Write for particulars.

UXYLENE BORAM

Use
TRANSPARENT
for Veneers
and
Fabric RINSE
for Textiles

FIRE RETARDANT COATING

" Used in every Industry"

THE TIMBER FIREPROOFING CO. LTD.,

13a Old Burlington Street, LONDON, W.1.
Tels.: Regent 2489 (2 lines)

Works at:— Market Bosworth, Nuneaton

Queen Elizabeth Avenue, Hillington, Glasgow, S.W.2.

DH6/2376 A

There's always demand for ROYAL **VENTON** fireplaces





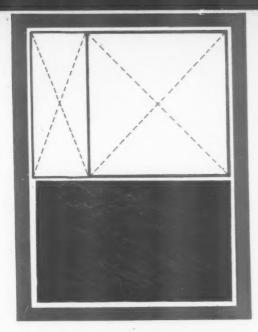
JOHN STEVENTON AND SONS LIMITED

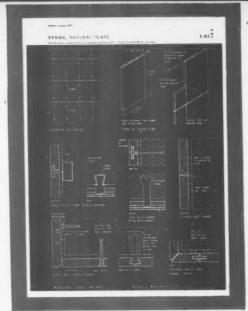
BURSLEM · STOKE-ON-TRENT

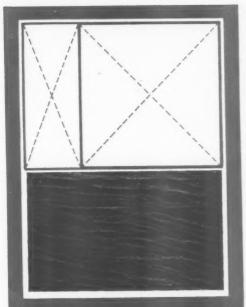
STAFFS

Tel: Stoke 84261-2 · Grams: Steventon Burslem

farmer



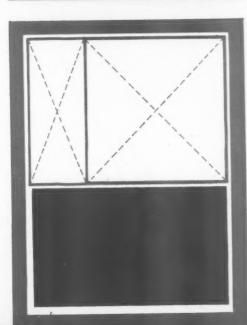


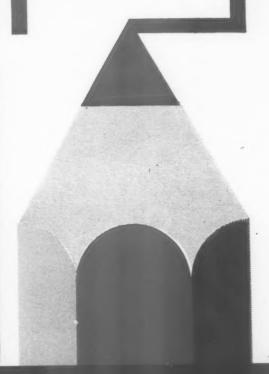


WINCILATE slate cladding

Is now textured as well as smooth. A sound inert material with a permanent blue-grey precision eminently suited to modern detailing. It's easy to fix, needs no maintenance, and lasts as long as the building. Architects' Journal Information Sheet 5.B2 describes Wincilate cladding, and can be obtained, together with other data, from the manufacturers:

The Bow Slate & Enamel Co. Ltd.
B.R. Bow Depot, Old Ford Rd. E.3 tel: ADVance 2203, proprietors of the Aberliefeni Slate Quarries.





by KINGSTON

Worldor timber shell roofing

We can offer a complete service in the design, manufacture in pre-fabricated form, and erection of Hyperbolic Paraboloid timber shell roofing in all its forms.

KINGSTON ARCHITECTURAL CRAFTSMEN LTD MINSTER WORKS HULL TEL: HULL 43121





PHILIPS

Free Lighting Design Service...



Dorchester Primary School

helps to build for the future

The Philips Lighting Design Service offers comprehensive expert advice from a team of experienced lighting engineers and a qualified architect who has made a special study of light in relation to colour - all this, without charge or obligation. The service has, since its inception, been responsible for many of the most imaginative lighting schemes devised in recent years. You can avail yourself of it simply by asking your electrical contractor or getting in touch with Philips direct.



LECTRICAL LTD LIGHTING DIVISION

CENTURY HOUSE . SHAFTESBURY AVENUE . LONDON . W.C.2

before

the

final

heating

Compare the cost of SILH

Increased efficiency of manufacture has resulted in price reductions on Wilson Oilheat pressure jet equipment, by as much as $17\frac{1}{2}$ per cent.

Wilson Oilheat equipment, from the small vaporising domestic boilers to the larger medium oil (200 second) burners are complete units.

Installation is quicker, more reliable and cheaper.

one of the largest selling oil-fired Boilers in the world



For houses. Small buildings up to 54,000 B.T.U's. per hour. Silent. No Electricity.



80,000 to 808,000 B.T.U's. per hour. Packaged Units for Domestic Hot Water and Heating.



For converting boilers with ratings of up to 2,000,000 B.T.U's per hour.



Suspended Unit Heater. Cheapest form of Air Heating for Works and Buildings.

Our Technical Department will be pleased to assist at planning and later stages.

Prices and details of the Wilson Oilheat range of equipment forwarded on request.

HENRY WILSON & CO., LTD., CORNHILL WORKS, KIRKBY, LIVERPOOL

Telephone: SIMonswood 2511

Telegrams: Sonwil, Liverpool

London:

39, New Broad Street, London, E.C.2.

Telephone: London Wall 5237

Glasgow:

20, Blythswood Street, Glasgow, C.2.

Telephone: City 7537

The Design Department of
G.K.N. REINFORCEMENTS LTD.
with drawing offices covering England,
Scotland and Wales, provides a complete
service to architects and engineers
concerned with the planning and design
of every type of reinforced and
pre-stressed concrete structure.
The Design Department submits complete
plans, with advice on the most effective
and most economical use of steel.

If you want to put steel into concrete, get in touch with

G.K.N. Reinforcements Ltd.

(FORMERLY TWISTEEL REINFORCEMENT LTD.)

43 UPPER GROSVENOR STREET, LONDON W.1 (GROSVENOR 8101)

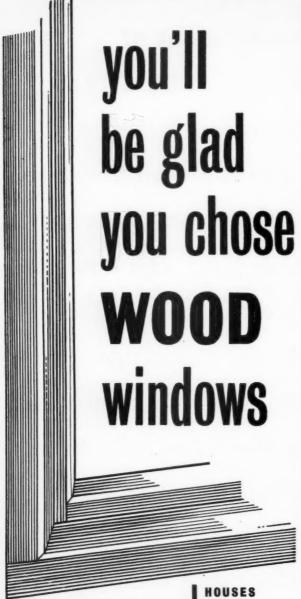
SMETHWICK, BIRMINGHAM: Alma Street, Smethwick 40, Staffs, (Smethwick 1991)

MANCHESTER: 7 Oxford Road, Manchester 1 (Ardwick 1691) GLASGOW: 30 Pinkston Road, Glasgow C.4 (Bell 2446)

MIDDLESBROUGH: Dundas Chambers, Dundas Mews, Middlesbrough (Middlesbrough 3843)

BRISTOL: 16 Clare Street, Bristol (Bristol 21555) LEICESTER: 58-60 Rutland Street, Leicester (Leicester 27573)

BELFAST: Norman MacNaughton & Sons Ltd., 101 Corporation Street, Belfast (Belfast 1464)



Wood windows are ideal in every way for . . .

Wood is functional, economical to install and maintain, and provides maximum flexibility in expression. Furthermore, wood windows reduce heat losses, sound transmission and condensation. Remember, too, with wood windows you are ensured a quick delivery.

A CASE IN POINT Wood windows have been used in the new Administrative Block at London Airport with a view to combining functional efficiency with the required style of contemporary design. For advice on wood windows suitable for all types of buildings, consult E.J.M.A. Write to the address below.

THE ENGLISH JOINERY MANUFACTURERS' ASSOCIATION (INCORPORATED) (arith unhich is associated the Scottch Joinery and Door Manufacturers' Association)

SACKYILLE HOUSE • 40 PICCADILLY • LONDON, W.I • Telephone: REGENT 4448/9

Siscomatte

the finest wall-paint yet fo steamy atmospheres



Resists steam won't peel or flake.

Ideal for kitchens and bathrooms. restaurants, canteens and other industrial premises, where steam is a major problem.

Calcarium

the best water-paint for indoor and outdoor surface decoration



Strongly recommended by architects. professional painters, builders and decorators.

For hotels, factories, industrial buildings and private residences -town, coast and country.

Two famous paints, now available from the same source

Sissons

Sissons Brothers & Co. Ltd., Bankside, Hull (Incorporating A. T. Morse Sons & Co. Ltd. Plaistow, London, E.13. Tel: Albert Dock 5151

RIPPERS STANDARD WINDOWS

fo

ns

rs,

ces

Hull Ltd.

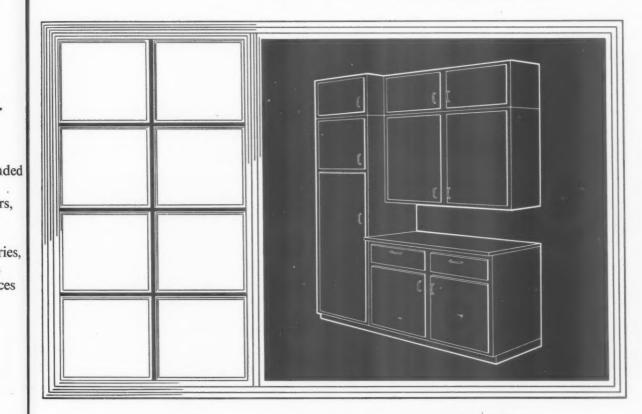
k5151

When you order windows, external door frames, internal door frames or kitchen units, make sure you buy Rippers—the finest standard joinery obtainable.

Over sixty years experience is behind Rippers quality—

'the best in the business'

Write to-day for our free Catalogue: it describes over three hundred designs from which endless window combinations can be arranged, and includes descriptions of all our products. Apply for your free catalogue to Dept. A.J. 22/5.



"you'll be glad you chose WOOD windows"

CASTLE HEDINGHAM, HALSTEAD, ESSEX

TELEPHONE: 191 HEDINGHAM (4 lines). TELEGRAMS: RIPPERS, CASTLE HEDINGHAM

LONDON OFFICE :

9, SOUTHAMPTON PLACE, LONDON, W.C.I. TELEPHONE: CHANCERY 8306/7.

They never let you down



YOU CAN BE CERTAIN TOO that Nife-Neverfayle Emergency Lighting Equipment will never let you down. Whenever needed, these reliable units will instantly, automatically spring into action. That is the special advantage of the Nife Steel Alkaline Battery—it never deteriorates, even after long periods of inactivity. Nife-Neverfayle units occupy only one-third of the space required by conventional equipment, and, as they can be installed adjacent to other equipment, a separate battery room is not needed—a point worth remembering when planning new buildings. Maintenance costs are negligible—after years of trouble-free service you will realise just how economical your Nife-Neverfayle equipment has been.

NIFE-NEVERFAYLE

THE EMERGENCY LIGHTING EQUIPMENT WITH THE STEEL ALKALINE BATTERY

NIFE BATTERIES . REDDITCH . WORCESTERSHIRE

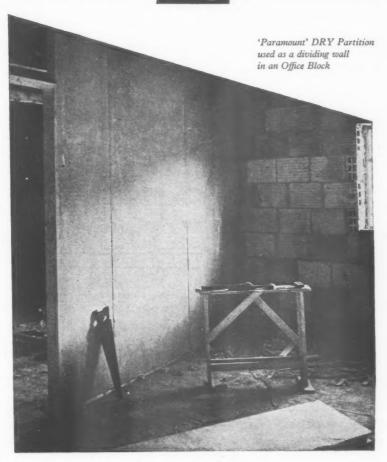
This advertisement is produced to B.S. 1311, 1956, governing Trade and Technical publications.



A SET-SQUARE, SAW AND HAMMER

are the only tools you need for erecting

'Paramount' Dry Partition



Apply for YOUR copy of the Architects or Builders Book on Paramount Dry Partition to

Dry Construction Division

BRITISH PLASTER BOARD

(Manufacturing) LTD

BATH HOUSE. 82 PICCADILLY, LONDON, W I TELEPHONE: GROSVENOR 8311.

AP87A

Hardwood floors on panel heating THESE PRESENT NO PROBLEM TO VIGERS BROS WHEN LAYING THEIR OWN HARDWOOD FLOORS

The Architect today specifying hardwood flooring and under floor heating may be concerned about the proximity of floor to heat source. He need not worry.

The Vigers technique has overcome the old difficulties. Whatever the heating, we can lay a floor which will be equally satisfying to Architect, Client and ourselves.

Need more be said?

Selection of flooring over panel heating contracts in progress or completed

Architect

Gunton & Gunton

London County Council

H. & H. M. Lidbetter

Lanchester & Lodge Lanchester & Lodge

County Borough of

Job

London Chamber of Commerce

il Royal Festival Hall

Headquarters National Union of General & Municipal Workers, London

University of Leeds

University of Belfast

Stanmer Mixed Secondary Grammar School

Material

Muninga strip and block

Burma Teak strip

1" Burma Teak and Banga Wanga blocks

Missanda blocks

Muninga, Iroko and Teak blocks

Muninga blocks

VIGERS BROS LTD

HEAD OFFICE: BROADWAY CHAMBERS, LUDGATE BROADWAY, E.C.4
Also at EXETER • BELFAST • CARDIFF





lock

NO MORE ROOM INSIDE . . .

If like the Conductors, you are faced with the same problem then you are at a definite advantage if you invested in a Coseley Building in the first place, it is so easily extended.

Designed in clear spans from 30' 0" to 75' 0". Eaves heights from 8' 0" to 20' 0".

Lengths in multiples of 12' 6". Width in multiples of Standard spans

Send now for illustrated Brochure and full details, or better still ask our Technical Representative to call.



Yes—The Standard MacLean system gives perfect protection. 3 Coats!—One Zinc—two Red Oxide. This provides guaranteed Rustproof Windows and costs no more.

Architects, contractors and their staffs are welcome to visit the Factory and see the largest Electro Galvanising process in Britain. By contacting any of our addresses arrangements can quickly be made.

Once the windows leave the Assembly Shops the process is fully automatic, and consists of degreasing, cathodic pickling, anodic pickling, zinc plating, phosphating, and two coats of paint individually stoved on.



Mitre—Tenon—Welding—each as perfect as the Rustproofing. This is ensured by the most modern engineering methods—see it for yourself.

Standard Maclean Limited



STANDARD MACLEAN LIMITED, CADZOW WORKS, LCW WATERS ROAD, HAMILTON; Lanarkshire,

Hamilton 1410/4

Wa

an e

Ca

pre

ABERDEEN: 13 Bridge Street. Tel.: Aberdeen 52331. EDINBURC H: 7 Albany Street, Tel.: Waverley 2190. NEWCASTLE: 14a Pilgrim Street, Tel.: Newcastle 27776. BELFAST; 32 Ann Street, Tel.: Belfast 32003. LONDON, W.C.1: 1 Warwick Court, High Holborn, Tel.: Holborn 2462. WOEST BROMWICH: Houghton Street, Tel.: West Brownich 0405. WORTHING 30 Manor Road, Tel.: Worthing 1495.

From Washington...

Tree from duex

Obviously the
Washington Wall Radiator
can be easily cleaned—
an essential factor in hospitals
and schools, and wherever
hygiene is necessary.
The stream of warm air
caused by convection carries
no dust to pollute the
atmosphere

Light

Being of lightweight
pressed steel the Washington
Wall Radiator is easily
supported, economically
handled



Smooth, streamlined and slim, the Washington Wall Radiator ideally matches modern architectural trends; its touch-smooth finish is unobtrusive against any background

The Washington Wall Radiator ensures minimum projection and is attractively slim in appearance



Revolutionary Wall Radiator

Manufactured as single and double panel



目

Don't delay - Post Today!

To Dept. A.J.
WASHINGTON ENGINEERING LTD.
P.O. Box No. 4, Washington, Co. Durham.

Please send me full details of the Washington WALL Radiator.

NAME

P.O. BOX NO. 4, WASHINGTON CO. DURHAM.

Telephone: Washington 2362-3.

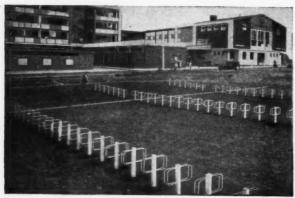
Telegrams: Wearco, Washington Station

(Full range of pressed steel column radiators also available)

SOLE AGENTS: Mesers. BROWN & TAWSE TUBES LTD.,

BRANCHES AT DUNDEE, GLASGOW, LONDON, MANCHESTER & BIRMINGHAM.

ADDRESS



By permission of Harlow Development Corporation, Essex

the versatile VelopA

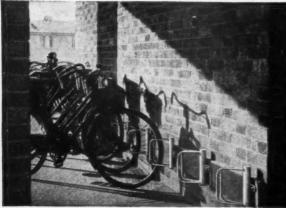
solves all bicycle parking and storage problems is made from heavy section steel tubing and bar is hot dip galvanised after manufacture requires no maintenance is virtually indestructible has no moving parts grips tyre only has symmetry, simplicity and style



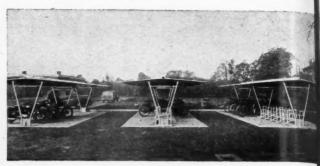
VelopA bicycle holders

LE BAS TUBE COMPANY LIMITED

City Wall House, 129 Finsbury Pavement, London, E.C.2 Telephone: MONarch 8822 Telegrams: Lebasco, Avenue, London LONDON . MANCHESTER . GLASGOW . BELFAST



By permission of The Chief Education Officer, County Borough of Ipswich, Suffolk



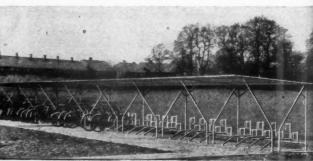
By permission of The Chief Education Officer, Norfolk Education Comm



By permission of The Chief Architect, Crawley Development Corporation, Su



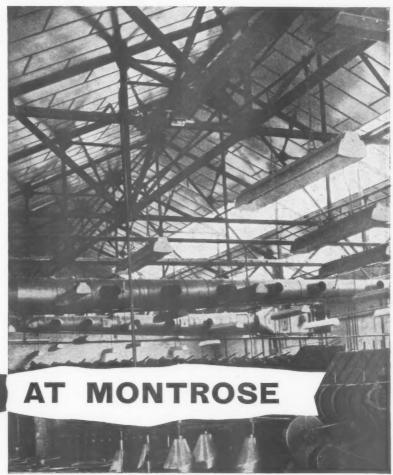
By permission of L. G. Vincent, Chief Architect, Stevenage Development Corporation, Her



By permission of The County Architect, Middlesex County County

GYPROC PLASTERBOARD PANELS with a veneer of aluminium foil on each side used in the Gypstele System at the Jute Spinning Mill of J. & D. Wilkie Ltd., Northwaterbridge, Montrose.

General Contractors:
Robert Pert & Sons Ltd. Montrose,
Sub. Contractors:
Jackson Steel Structures, Dundee.



GYPROC

... stopped roof condensation in this jute spinning mill where operating conditions involve an internal temperature of 75°F with 75% relative humidity...

USING THE GYPSTELE SYSTEM

The many advantages of the Gypstele System incorporating Gyproc Plasterboard Panels can be summarised in six main features:

1. Improved thermal insulation with fuel saving.

2. Fire Protection Class 1 flame spread.

3. Simplicity of erection.

4. Increased light reflection.

5. Lightweight "dry" construction.

6. Completely adaptable to individual requirements.

The system is worth studying in all its aspects, particularly for use in factories, offices, schools and hospitals. For full information

write for Information Sheets A22.E1 and A22.E2

GYPROC PRODUCTS LIMITED

Head Office: Singlewell Road, Gravesend, Kent. Gravesend 4251/4
Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.I. Govan 2141/3
Midland Sales Office: 11 Musters Road, West Bridgford, Nottingham. Nottingham 82101
London Office: Bath House, 82 Piccadilly, London, W.1. Grosvenor 4617/9
S/GSS

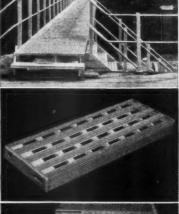
Head in the clouds

Down-to-earth industrialists have been quick to install Alaflor extruded aluminium flooring. It's outstanding economy and safety cannot be ignored.

Strength and rigidity, in combination with minimum weight and the non-corrosive properties of this aluminium alloy, make maintenance overhead a thing of the past.

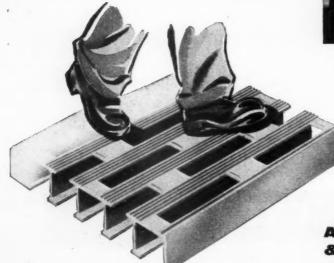
For safety, Alaflor cannot be bettered, it's spark-resistant and non-skid.

Put Alaflor underfoot for saving and safety's sake. Literature is available on request.





or feet on ALAFLOR



NOTE: Alaflor is manufactured in 6" widths and extruded to a maximum length of 24tt. Grating depths from $\frac{3}{4}$ " to 2". Availiable in two types (a Rectangular (illustrated), size of punch 3" \times $\frac{11}{11}$ " (b) Square, size of punch $\frac{3}{4}$ ".

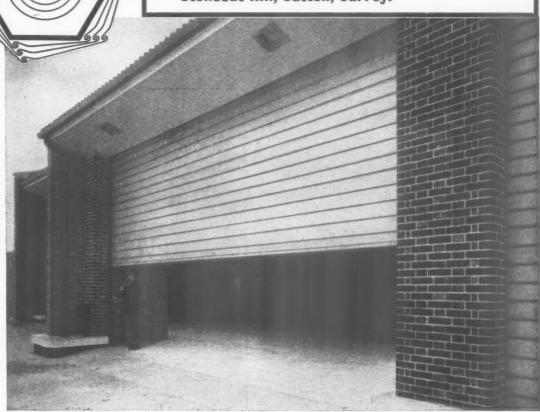
ARCHIBALD LOW & SONS LIMITED

HOME & OVERSEAS SALES OFFICE: 143 Sloane St., London S.W.1. Tel: Sloane 6178 .HEAD OFFICE & WORKS: 82 Merkland Street Partick, Glasgow W.1.

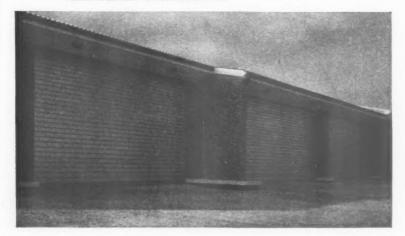
ROLADOR

STEEL ROLLING SHUTTERS

have been installed in the new workshops and garages at the T.A. Centre, Stonecut Hill, Sutton, Surrey.



MESSRS. STROUD & NULLIS CHARTERED ARCHITECTS



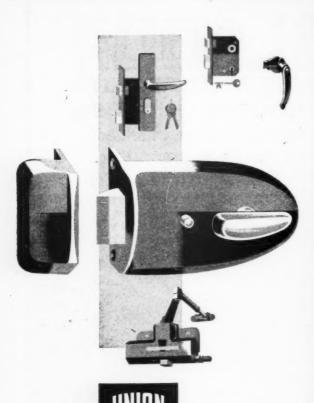
Haskins

Sole Designers & Makers of ROLADOR STEEL ROLLING SHUTTERS.

Gnome House, Blackhorse

Lane, London, E.17.

Telephone: LARkswood 2622





LOCKS AND BRASSFOUNDRY



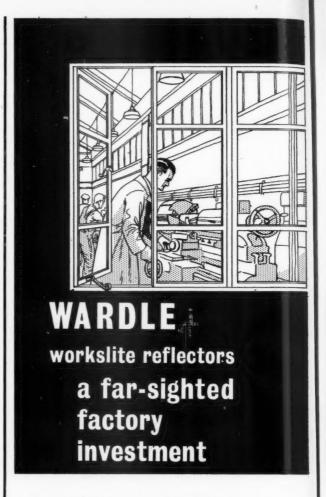
The range of UNION Locks and Brassfoundry includes a wide variety of types and grades so that most buildings can be equipped with suitable fittings of our manufacture. There is no higher quality in the trade, and our prices are competitive. We have been in the industry since 1840 and employ upwards of 1,900 people in our factories at Willenhall, Birmingham and Johannesburg. Our trade is conducted solely through builders' hardware merchants but we are always pleased to offer you the benefit of our expert advice.

JOSTAH PARKES & SONS LTD UNION WORKS WILLENHALL STAFFS ENGLAND

BUSH HOUSE, LONDON - JOHANNESBURO, SOUTH AFRICA.

EST. 1840

554/1958



Lighting that is better than merely adequate, stimulates production, decreases spoilage, improves product finish, reduces accidents, preserves the sight of skilled craftsmen and ameliorates working conditions. The installation of Wardle Workslite Reflectors in your premises will increase output at no greater expense than you would incur for less well designed reflectors.



HAVE YOU A LIGHTING PROBLEM?

A Wardle technical representative is freely available to advise you on how to obtain effective lighting with economical power consumption,

Catalogue L601/B
"Workslite Reflectors"
available on request.

THE WARDLE ENGINEERING CO. LTD.

OLD TRAFFORD, MANCHESTER, 16

Telephone: TRAfford Park 1801 (3 lines) London Office: 34 Victoria Street, S.W.1.

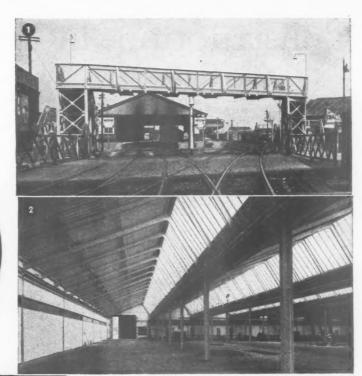
Telephone: ABBey 4072 and 1356

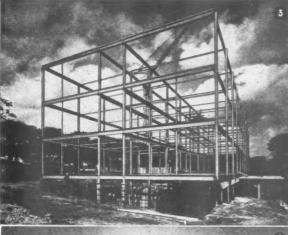


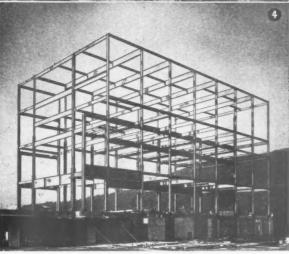
W398

- Footbridge for Level Crossing in Grimsby.
- Interior view of factory for Messrs. Brook Motors Ltd., Barnsley.
- Sowerby Bridge Secondary School.
- Control Room, Services and Welfare Block, Elland Power Station.

STRUCTURAL STEELWORK









JAMES AUSTIN AND SONS (DEWSBURY) LIMITED

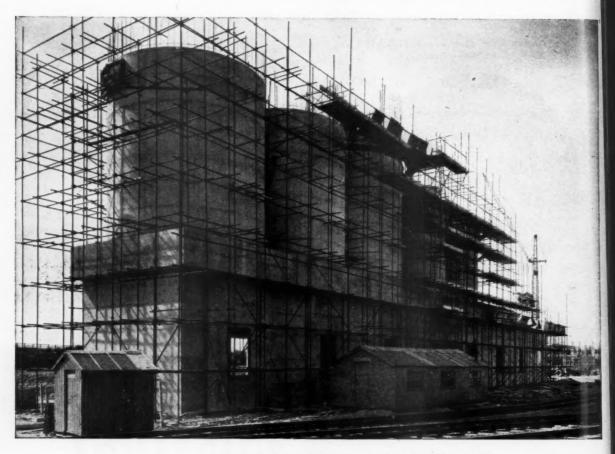
Thornhill Iron & Steel Works, Dewsbury, Yorkshire Telephone: Dewsbury 1750 (7 lines) Telegrams: Austins, Dewsbury, Telex No. 55-129



LONDON OFFICE: Kirkman House, 54A Tottenham Court Road, London, W.I. Telephone: Museum 1064

H.P.5917

Construction in progress



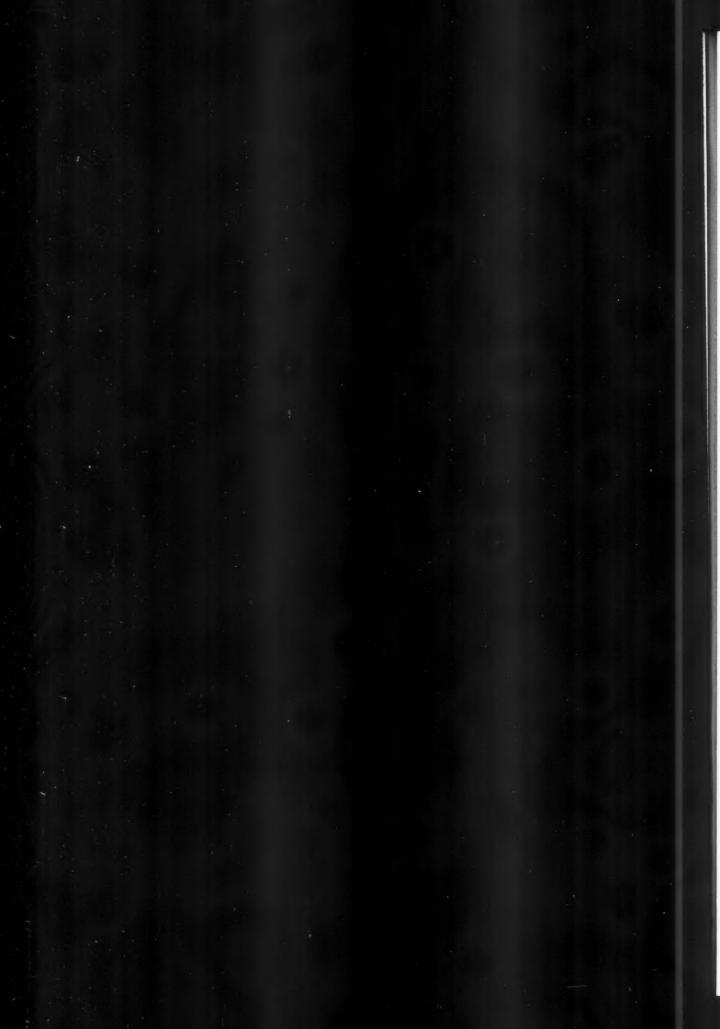
Blending Bunkers at Murton Coking Plant of the National Coal Board, Durham Division.

(Photo reproduced by permission of the N.C.B.)

Main Contractors: Woodall-Duckham Construction Co. Ltd.

Reinforced concrete by specialists. The product of a co-ordinated construction and design team, progressive in its approach, yet schooled in the styles, skills, and economies arising from Truscon's fifty years' specialist experience. In short, concrete of character

by Truscon



"Why was this necessary."



"Because he had no other way of escape."

"MURILITE" Pre-mixed Perlite Plaster, which has attained a Grade A (6 hours) Fire Protection Rating, could have resisted the spread of flame for a long enough period to have permitted him to use the normal exits.

Complete details of the test made in accordance with the British Standard definitions No. 476:1953 are contained in the F.R.O.S.I report No. 621:1955.





Write for detailed brochure to

CAFFERATA.NEWARK

Can be applied by any plasterer . . .

NOW-A GRANITE-HARD 'SKIN' OF STONE

IN ITS

NATURAL

co ou s

GLAMOROCK

FOR FACING AND RE-FACING INSIDE AND OUTSIDE WALLS

Scintillating specially mined natural rock entirely free from artificial pigmentation in 24 basic colours giving infinite number of colour blends

Glamorock's scintillating and beautiful colour-effects are inherent in the natural mined rock. The colours cannot fade or deteriorate. Nor can Glamorock craze or peel. It resists dirt and smog. Providing a "skin" of granite-hard stone, Glamorock is virtually impervious to the weather. Its economy may be assessed from the fact that one application of Glamorock will outlast many refacings of paint or other facing treatments, externally or internally.

* PLEASE WRITE FOR

COMPLIMENTARY GLAMOROCK WALLET

Complete with ACTUAL GLAMOROCK SAMPLES of all colours and finishes. Also blends, etc.

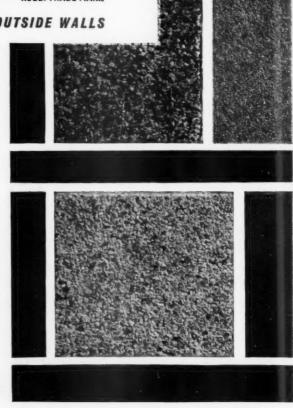
Please address your enquiries to either of these distributors:-

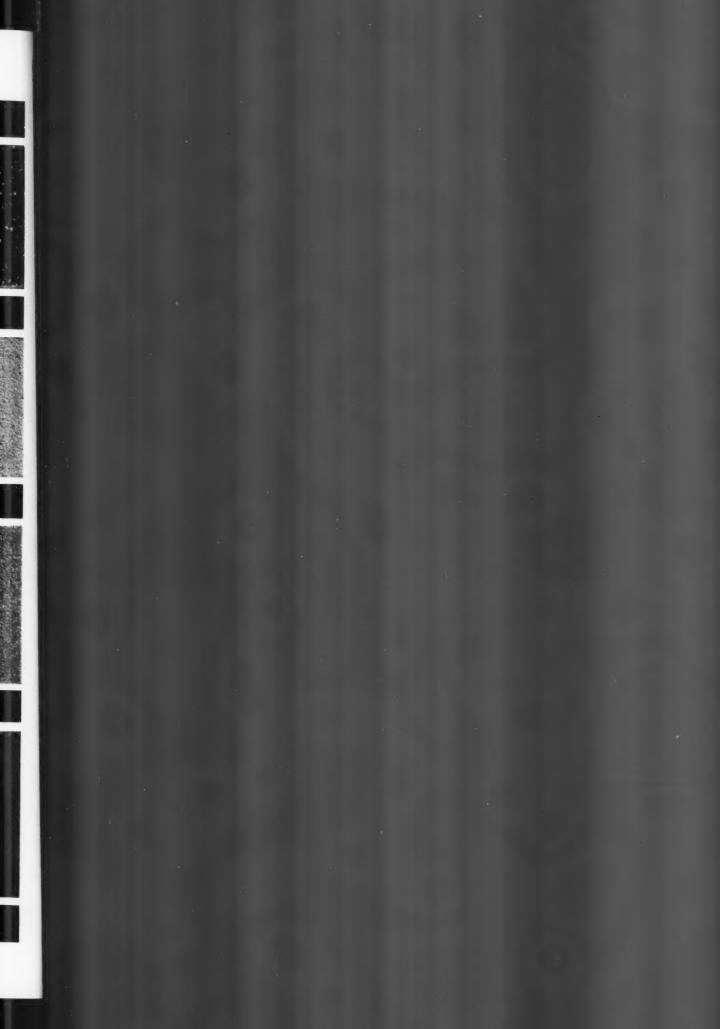
MONTAGUE L. MEYER LTD. Branches in principal cities.

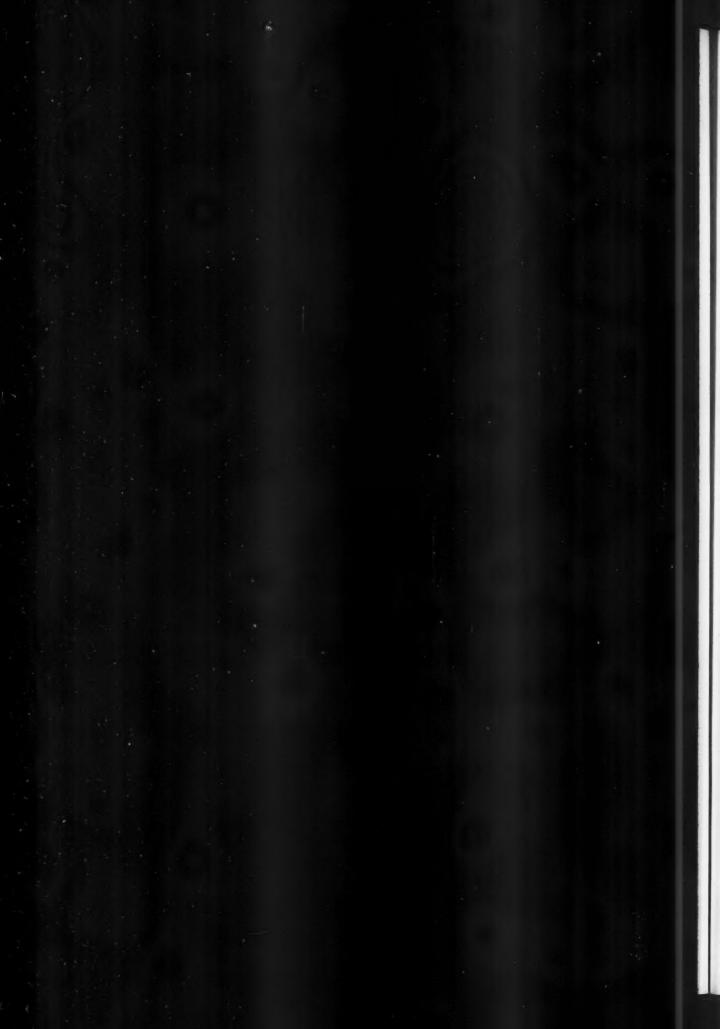
14 Buckingham Street, London, W.C.2.

SURFACE PROTECTION LTD. 28 South Street, London, W.1.

Manufacturers: Glamorock Ltd. (REG. UBERS) MONZA STREET, WAFPING, LONDON, R.1.







FOR SERVICE COUNTER PROBLEMS . . .



CONSULT STOTTS

Architects faced with the technicalities of planning cafeteria serveries are invited to make use of Stotts specialist knowledge and advisory service, where they will find a refreshingly modern outlook on design and a spirit of co-operation in the use of the latest constructional methods.

Write for leaflet "Service Counters/11"



"Stolls of Oldham"



THE ARCHITECTS' JOURNAL

No. 3299 Vol. 127 May 22, 1958

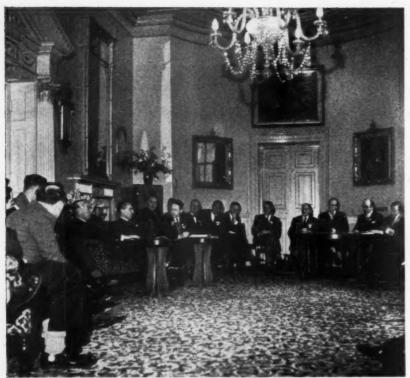
9-13 Queen Anne's Gate, London, S.W.1. Tel. WHI 0611 Subscription rates: post paid, inland £2 15s. 0d. per annum; abroad, £3 10s. 0d. per annum. Single copies, 1s.; post paid, 1s. 6d. Special numbers are included in subscriptions; single copies, 2s.; post paid, 2s. 6d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for £1 10s. 0d.; carriage 2s. extra.

NOT QUITE CHARACTER

THE NEWCASTLE CONFERENCE

All post war conferences of the RIBA have been run extremely efficiently, for which tribute should be paid to the RIBA official staff, who ensure that the host, the Allied Society, know precisely how it should be organized. It would be invidious, therefore, to say that last week's conference at Newcastle was more efficient than others, but it might be true to say that it achieved efficiency with less apparent strain than some have done. As might be expected, the numbers attending the conference was lower than last year, when Oxford could be guaranteed to attract a large crowd. There were in all almost 620 attending, of whom about 356 were architects (137 representing local authorities), the remainder being wives and relatives, the Press and representatives of local government.

The two discussions on the conference papers were held at the Lecture Theatre of the Literary and Philosophical Society, whose headquarters were in Westgate Road, close to Central Station and the Royal Station Hotel. Only a little way across the street was the conference headquarters in the Old Assembly Rooms, and here were held all the conference events save the garden party, naturally, and the exhibition of work by the members of the Northern Architectural Association, which was on view at the Laing Art Gallery, about threequarters of a mile away. Even luncheons were served at the headquarters each day, obviously necessitating a tremendous amount of administration and furniture moving, as each meal was followed by reception, dance or dinner. Fortunately the assembly rooms are architecturally almost equal to such prolonged usage. They were built in 1776 to a design by a local architect, William Newton. A dark grey stone façade with a central bay of four large Ionic columns, has been applied to a dull brick box, but the interior is a pleasing arrangement of spaces, and the main room is impressively large, lit by clerestories, and covered with Adam-like plaster-work. The colour schemes,



The study group in progress at the Old Assembly Rooms, Newcastle, under the chairmanship of W. A. Allen. The two speakers, Professor Sir William Holford and Professor Robert Matthew can be seen seated on left. Speakers were discussing the lines on which the discussion of the papers was to continue on the second full day.

of cream, shocking pink, and gold is very dreary, and the roughly tinted medallions in the plaster work are just vulgar. Even so, the main assembly room is greatly preferable to the other ill-decorated rooms, each desecrated with modernistic bars.

The approach to the Assembly Rooms, consisting of a semi-circular sweep of road round an area of pink granite chippings and crazy paving was a perfect example of subtopian design, from the gaunt lime trees, all of them having had their upper branches

sheared off to an even height of 20 ft. or so from the ground, to the blot-shaped flowerbed in asphalt, near the entrance containing yellow wallflowers and two yellow tulips. It would be nice to report that the conference architects felt their way through this concrete example of a Gordon Cullen demonstration of how-not-to-do-it with their eyes shut. Unfortunately the majority appeared to be as oblivious as any layman of this example of the wrong sort of character in a town.

TRAINING THE CHITECT

An exhibition of post-war architecture in the area of the Northern Architectural Association (arranged by the Association in conjunction with the Civic Trust) is on view at the Laing Art Gallery, Newcastle. It commemorates the NAAcentenary. Left, two exhibition committee members, H. S. Wood (the designer of the exhibition) and D. W. Chalk, examine a model for a local airport project made by students of the Newcastle School of Architecture.

On the evening before the conference started the architectural students of King's College, Durham University, showed commendable initiative by holding a brains trust. William Allen, Sir William Holford. Bruce Allsopp and Percy Johnson-Marshall were the brains called upon to spend about two hours discussing seven or eight questions which ranged from hoary favourites such as:- Is architecture more an art than a science? or, should architects and sculptors be encouraged to collaborate? To the new-fangled poser: Should architects participate in the all-in service? (Answer: They should.) Question: Then is the RIBA doing anything about it? (Answer, from the normally loquacious William Allen: " Yes.")

As customary, there was an informal reception, which also took place the Wednesday evening before the conference started. This was a perfect occasion for Londoners to greet each other with cries of surprise, and for regular conference attenders to note that the other regulars were looking even older, or even more prosperous, than last year. The crowd, and the hospitality, was such that although Northumbrian pipes were played, and sword and clog dances performed, not a murmur of sound penetrated from one room to another, so regrettably a number of guests missed seeing these added and fascinating entertainments.

On Thursday morning the conference members assembled on the hard wooden benches of the Literary and Philosophical Society's lecture theatre. The floor is steeply raked and the benches disposed in a semicircle before the lecturer's table and the lantern screen. The walls are partly panelled and hung with portraits in oil, of presumably, early Newcastle philosophers -certainly their narrow canny eyes and pendulous noses suggested a Tyneside origin. The room was artificially lit by cubic light fittings looking like gigantic glowing lumps of sugar. A chalk notice at the door announced: Brit. Achi. Meeting. The clock had stopped at 12.

A friendly Lord Mayor, plump, pink, bald and witty, gave a leisurely address of welcome, confessed to knowing nothing about architecture, but did not forget to congratulate the Newcastle city architect on his work, and, in particular, his design for the new technical college. Kenneth Cross, the president, thanked the Lord Mayor, welcomed delegates from America, New South Wales and Malaya, and reminded the audience of the debt everyone owed to the NAA for organizing the conference. Donald McIntyre, the president of the NAA, replying, said that the president's words inspired and ensured that the conference would be a success. He asked the audience to visit the NAA's architectural exhibition and suggested that the RIBA place a claim for it to be exhibited at Portland Place.

Professors Sir William Holford and Robert Matthew then introduced their papers (which had previously been distributed to the members of the conference) and showed a considerable number of slides. Holford showed Cove examanywand precionother Quantime labo Marri East ton Cove

Wind

of done:
Matimain
Neit
defin
ter,
betv
ther
ing
and
grou

of can first subsection the plan tree Afficient con

his top O trac cor Du vas

cus

pa spe be rei hii

sh an da in ch

di di

views of St. Andrews, Tenterden (Kent), Winchelsea, Rye, Regents Park, Bath, Hull Coventry and Canterbury, Honolulu (an example of a main street which might be anywhere), Philadelphia, Cape Town, Brazil, and of his proposals for the St. Paul's precinct. Robert Matthew showed, amongst others, views of suburban Edinburgh, Quarry Hill (Leeds), various unnamed wartime designs for town-centres, Spence's laboratories at Liverpool and offices in St. Martin's Lane, Cumbernauld New Town, Fast Kilbride, Hatfield, Cwmbran, Roehampton (LCC), Sheffield University, Tile Hill, Coventry, and the New Barbican. Holford's slides were largely either historical examples of different types of architectural character. or examples of good and bad town planning. Matthew's illustrations were suggested as mainly examples of architectural character. Neither speaker attempted at any length to define different types of architectural character, or to distinguish precisely the difference between good and bad character, but limited themselves largely to illustrating and describing good and bad examples of town planning and design. No doubt on very reasonable grounds they did not attempt any definitions of character or to say how it could be obtained. Indeed, they were more or less the first and last users of the word "character," subsequent speakers being content to discuss education in civic design, town planning, the effect of the motor car on the town, planning control, administration, density and tree-planting.

erence

King's

brains

lford,

rshall

about

eight

vour-

n art

and

? To

itects

wer.

RIBA

n the

Ilen:

rmal

the

rence

for

cries

rence

ulars

more

and

ough

word

rmur

n to

uests ating

ence

oden

hical

eply

emi-

the

artly

l, of

hers

and

igin.

ight mps an-

lock

ink,

s of

hing

t to

for

oss.

yor,

New the

the

nce.

ent's

ferthe

ural

BA

pert

ich

em-

on-

ved

After lunch a number of architects particularly interested in the subject of the conference, Character in the Architecture of Towns, met under the chairmanship of William Allen to decide what form the discussion should take the next morning. Under his excellent guidance a rough grouping of topics was arranged.

On the afternoon of the Thursday the traditional garden party was held. This consisted, strangely, of just a service in Durham Cathedral, followed by tea in the vast Monks' Dormitory, stuffed with manuscripts and fragmentary stone crosses, and a tour of Durham Castle. If an unconventional party, it was an absolutely splendid way of spending an afternoon, and could only have been improved if each new visitor had remembered to take his Pevsner guide with him.

In the evening there was the usual civic reception and dance. Friday morning showed an only slightly depleted audience, anxious to open a discussion on the previous day's papers. Provided one was not expecting a detailed discussion on architectural character, the speeches were of a fairly high standard and a number of architects had come with slides to illustrate their points. For a moment it seemed that the American representative was going to provide a third paper for discussion, but he was prevailed upon to pause and let the rest of the audience chip in. His points on the need for designing buildings to be seen from the air, on relying on climatic conditions for the provision of character in town design, and on the lack of wisdom in planning car parks in Newcastle because they just allowed more cars into the centre, were however, worth noting. Percy Johnson-



At the Inaugural Meeting held on Thursday morning in the lecture theatre of the Literary and Philosphical Society, Newcastle. Donald McIntyre, president of the Northern Architectural Association, is welcoming delegates. Left to right, the Lord Mayor of Newcastle, Alderman J. W. Telford; Kenneth M. B. Cross, and C. D. Spragg. Below, left, at the civic reception and dance held at the Old Assembly Rooms on Thursday night; Tony Abbott and Dorothy Wilkinson. Below right, the grounds of Durham Castle, the scene of the garden party. Jeffrey Aronin official observer for the AIA from New York photographs his mother (right), Mrs. Joseph Aronin, mayor of San Antonio, Texas, and Mr. and Mrs. D. Wise (he was chairman of the handbook and publicity sub-committee, she is a practising architect).





At the informal reception held at the Old Assembly Rooms on Wednesday night. Left to right, H. Wharfe and Mrs. Wharfe, Mrs. Fielden and F. Fielden, of Newcastle-upon-Tyne.



Marshall emphasized the importance of the time-factor in planning, and the need for architects to understand the process of local government. Bruce Allsopp compared a neat, precinctual, car-less Greek village with a road-dominated rebuilt Le-Havre. Clifford Culpin extolled the virtues of cul-de-sac, semi-Radburn planning.

Donald Gibson emphasized that Coventry was a success despite expert advice and cited numerous examples of where expert opinion had been against the various features which were now extolled in the Coventry centre, such as: the pedestrian precinct, offices over shops, varied floor surfaces. Fello Atkinson came closest to the subject of character when he emphasized the importance of the silhouette in city skylines, particularly when the modern slab-block has usually a "dead pan" outline. London byelaws, he warned, may make unlively masses.

Alexander Steele, of Edinburgh, pointed out users of existing buildings were encouraged to maintain outworn buildings because they provided, or could provide, a higher plot ratio than a new building. He wanted architects to join planning committees.

E. T. Ashley Smith (Kent County Architect) asked Allied Societies, by exhibitions and meetings, "to create a climate to support planning." Professor Holford, speaking during the discussion, emphasized the need to deal with motor traffic either by pedestrian precincts, or by having pedestrian and motor circulation at two levels. His quietly spoken bombshell was the statement that he didn't think the Ministry of Transport had a policy. The MOT can't say what will happen in five years' time: their strategy of communication is inflicted on them by the budget.

The afternoon of the Friday was devoted to tours of Newcastle and the surrounding countryside. In the evening the conference dinner was held, when Kenneth Cross, the president, congratulated the NAA on the hundredth anniversary of their association, and on the quality of their architectural exhibition, which, in collaboration with the Civic Trust, they had put on display at the Laing Art Gallery.

Two other events should be noted; the first is one more example of the completeness of the careful planning for the conference by members of the NAA: the publication of a most interesting special number of Planning Outlook, the journal of the Town Planning Department of Durham University, which contains excellent articles on subjects related to the conference theme. The other event of note was the holding of a Special Congregation of Durham University at Newcastle on the Saturday, at which honorary degrees were conferred on the following:

D.C.L.: Kenneth Cross, M.A., the President, and Donald Gibson, C.B.E., M.A., at present the county architect for Nottinghamshire, previously architect of Coventry, and recently appointed to be director-general of works in the War Office. M.A.: Donald McIntyre, President of the NAA, and C. D. Spragg, C.B.E., Secretary of the RIBA since 1945.

The Editors

CONFIDENTIAL: DON'T READ THIS

Wil

The

nol

stu

ma

and

Wi

bu

RITICISM of the RIBA, and of the allied societies, so often arises not because they are doing the wrong thing, but because, as far as the average member is concerned, they appear to be doing nothing at all. at least partly due to the extraordinary urge felt by official staff and committee men to keep all their work and discussions secret. There would seem to be two reasons for this. First, if everything is stamped secret and confidential, and therefore can be talked about only by "insiders," there is less chance of argument and dissent from the "outsiders" and therefore life is very much easier and more restful for the officials. (Easier, that is, except at occasional A.G.M.s). The second reason is less tangible, but membership of a secret society and possession of secret information which the men beyond the pale don't have seems to satisfy the individual's power complex. Unfortunately, secrecy breeds opposition. If, therefore, there is anything to learn from recent events, it is the need on the part of the RIBA and its committees, and Allied Societies, to fight against the inborn tendency to have a quiet life and to keep everything confidential. If all these bodies looked at their reports and deliberations afresh they would realise that, apart from, say, periods of actual negotiation with outside bodies, virtually nothing need be considered confidential.

EDUCATION: THE FULL REPORT

On page 772 we print the report of the Oxford Conference. This confirms the bold proposals commended in our leading article of May 8. The future student will go (with a GCE at A level) to a full time, fully "recognized" University or advanced Technical College course. His teachers are to be men of considerable experience in practice or research. There will be interchanges with other faculties (economics, sociology, science) and a good deal of post-graduate study. In other words, training for architecture is to become more on a par with training for medicine or engineering. What the conference has done is to outline a new system of education which should surely have the support of the whole profession.

The next question that the Board of Education will have to face when they come to implement these proposals is what the content of the new system should be? What kind of knowledge and skills should the future architect command and what sort of contractual position vis-à-vis clients and the industry will he hold? The content of present training is too academic and too isolated from the industry (the report briefly recognizes this) and the consequence has been a rather uncertain public confidence in the architect's ability to control costs or to appreciate the client's economic problems.

It is clear that decisions about the content of education must be linked with forecasts as to the nature of future practice Will public service grow, will private practice diminish, will more architects go into industry (to take leading positions)? Will the team gradually replace the pyramidal organisation? The controversial proposal for a class of "supporting technologist" assistants who would not be architects in name is clearly a recognition that education's present aim—every student a potential principal—will not do any more. But we cannot decide what skills this "NCO" class should command—or even whether they are necessary at all—until we have decided what skills the architect himself should possess, and in what contractual position he will exercise them.

Without such a re-appraisal of education's content, the move into the universities might only weaken the already slender ties between the schools and "real life." If, on the other hand, it is decided that the future architect must have a better grasp of costs, manufacture, erection, and specialist techniques, that his education does not finish at age 24 or 25, but is something that continues throughout life, then the schools of architecture could enormously enrich and unify university life as well as enhancing the architect's public prestige.

ASTRAGAL NOTES & TOPICS

S

S, SO

rong

er is

nis is

ficial

sions

irst.

efore

ance

efore

cials.

cond

and

the

plex.

here

the

s, to

d to

d at

hat,

tside

ence.

ding

E at

y or

o be

here

ogy,

ther

par

con-

hich

e to

vhat

d of

and

the

g is

port

ther

itrol

nust

ctice

will

as)?

BRUSSELS AND CRITICISM

The Builder has come out with a fierce attack on J. M. Richards for adversely criticizing the British contribution to the Brussels exhibition. Of course, anyone has the right to disagree with Richards's views, but what puzzles ASTRAGAL is The Builder's reasons for objecting to his giving them in a recent BBC talk. Says The Builder: it (Richards's talk) "must have created a curious impression on listeners abroad, unless, of course, it

was accepted as just another piece of British self-depreciation . . . one is left wondering just what is the BBC's policy in relation to British architecture and architects. Perhaps Sir Ian Jacob will tell us." That sounds very like a suggestion that it is part of the BBC's job to make sure that anything British is reported on favourably-a form of censorship that would be quite intolerable. Doesn't The Builder realize that the BBC's high reputation abroad derives from the fact that political or propaganda considerations have never been allowed to influence what is said?

The Builder makes another curious statement about the same BBC talk: that Richards ought to have mentioned that good numbers of people were Pavilions—as the British though that provided an answer to his criticisms of the design. Apart from the fact that the number of people who enter an exhibition building to see what's inside gives no indication of whether or not they liked what they saw. The Builder is surely wrong in saving that to attract visitors is "the object of the exercise."

If it were as simple as that, a pavilion full of dancing girls might do the trick. But visitors must be attracted in a way that leaves them with the right impressions and conveys effectively the right information. This isn't neces-

sarily best done by pandering to the most popular taste, and trying to please those simply seeking to be entertained.

THE LATEST FROM THE EXHIBITION

In previous weeks ASTRAGAL has passed on opinions on the Brussels fair. He could now, if he wished, give some of his own, having just paid his first—and highly enjoyable—visit since the opening. But he won't anticipate the special number of the JOURNAL on the exhibition, which is appearing next week. Here, however, are one or two up-to-date impressions:

Attendance seems to be very good. Even on a weekday, with the weather uncertain, the place is full though not uncomfortably so. Of the foreign pavilions, by far the most popular is the American-crowded all the time, owing, perhaps, not only to the charm and light-heartedness of interior but to the appeal of the non-stop fashionparade and the fact that there are lots of places to sit down. Other pavilions provide sitting space only on caféterraces, etc., but foot-weary visitors often want to sit when they don't want to drink.

The next most crowded pavilions seem to be the Russian, French, Dutch and Swiss. Britain is doing pretty well, though it's difficult to tell what this signifies because the British Government pavilion is not labelled. Many people seem to be going into it out of curiosity without knowing whom it belongs to.

At the time of the opening much was said about failures to be ready in time. A great deal has been done since. The enormous (and badly overcrowded) French Pavilion is now almost finished. "different" Italian defiantly Pavilion is completely ready. must assume that the very well designed Spanish Pavilion is finished too, because no work seems to be going on inside, though there is hardly anything in it. But it should be said that when Spanish dancers are performing on the raised stage in the middle, and the stepped-up floor all round is serving (as it is designed to do) as an auditorium, one is no longer conscious of the emptiness of the building.

Don't fail to go to this exhibition, but take plenty of money with you. And if you want to eat as cheaply as possible, in the most pleasant environment, try the German Pavilion.

GEMS FROM EAMES

The recent, all-too-brief visit of Charles ("Chairs") Eames gave many of us a first chance to see America's most brilliant designer with our own eyes, and hear him with our own ears -though some of you had to make do with the electronic eyes and ears of TV. On this occasion the ears had it. without a doubt, and ASTRAGAL can only hope that some devoted taperecorder addict has got as much as possible of the master's wisdom transcribed for posterity. Here are a few samples from memory.

On students. "It's gotten to be so that if you ask a student to sharpen a pencil, he says, 'Is there a course in pencil-sharpening? ""

On an all-round education. "This 'Whole Man' business is a fraud, you must know at least one discipline right through."

On answering silly questions. "If I was to tell you straight off without thinking, I should simply tell you what I thought last time I did think about it -and I might not agree with that now."

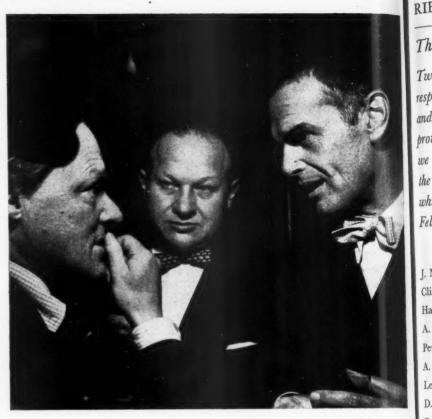
On conformity. "The point about conforming is not that it makes you successful, but it helps avoid immediate failure."

And one wifely comment from Ray Fames:

"At home I would never dare sit on a chair! "

BANQUETS AND BRICKBATS

Stanley Farrow, once an AJ Guest Editor, is having a busy year. Last week a colleague of mine suffered, if cheerfully, from the lavish entertainment Mr. Farrow dispensed, once as a member of Howard Farrow's (celebrating their fiftieth anniversary this year), and once as President of the LMBA giving a lunch to the Lord Mayor of London, Sir Denis Truscott. On the last occasion Stanley Farrow made a short. sensible speech, pertinent to the occasion. The Lord Mayor's reply was a lamentable bit of nonsense.



Sir Hugh Casson, left, talking to Charles Eames, right, at a recent party given by the ARCHITECTURAL REVIEW in honour of Eames at their offices in Queen Anne's Gate. Centre, Stefan Munsing, the cultural affairs officer at the U.S. Embassy. See "Gems from Eames.

Having pointed out that British building had a reputation second to none (which one can hardly prove or disprove). Sir Denis said that he wished he had as much confidence in the skill of British architects as he had in British builders. He praised County Hall and Waterloo Bridge as admirable examples of "20th century architecture," and advised people to study what is done abroad, particularly in Scandinavia, in "æsthetic appearance" and in the use of modern materials. Here is complete contradiction: County Hall and Scandinavia can never be related in 20th century terms or in the use of modern materials.

ASTRAGAL doesn't mind Lord Mayors criticizing architects-it shows that their eyes aren't completely blinded by banquets and big business-but please will they get their facts straight first.

BETTER DESIGN TRAINING WANTED

The winners of this year's Royal Society of Arts bursaries do not inspire much confidence in the future of British industrial design. Their work

shows for the most part a gadgety approach to design and a deplorably low standard of presentation and draughtsmanship. Most architectural schools could produce better work from students of comparable age and experience. Designers in countries where industrial-design standards are higher, such as Denmark, Sweden or Germany, are usually architects-or at least they have the advantage of an architectural education.

broi

1016

wh

Fel

I. I

Cli

Ha

There is no really satisfactory design course available in this country, and the RSA might well consider using the money it spends in giving unexceptional students glorious holidays abroad (mostly £150 a bursary) on the more useful task of improving design training generally.

Many of this year's juries commented on the lack of discipline on the part of some candidates who failed to comply with the requirements of the tests. This does not augur well for the relationships between these people and their future employers.

ASTRAGAL.

The Candidates' Statements

Twenty-four candidates for election to the Council of the RIBA have responded to our invitation to send in a short "election address," and about half of them have sent in their photographs. Whether this will prove to be a help or a hindrance to them only the ballot box can tell; but we are sure that it is valuable for candidates to state their views on the acute problems affecting the Institute and the profession. The replies, which are printed in alphabetical order, grouped hierarchically as Fellows, Associates and Licentiates, are from the following:

J. M. Austin-Smith (F)

Clifford Culpin (F)

Harold Conolly (F)

A. Douglas Jones (F)

Peter Dunham (F)

A. G. Sheppard Fidler (F)

Leonard C. Howitt (F)

D. Plaskett Marshall (F)

R. Duncan Scott (F)

Ralph Tubbs (F)

A. W. Cleeve Barr (A)

Brian Bunch (A)

J. Eastwick-Field (A)

W. G. Howell (A)

Harry Judson (A)

Robert Paine (A)

C. H. Bingham Powell (A)

Geoffry Powell (A)

C. H. Simmons (A)

Thurston Williams (A)

Hugh Wilson (A)

W. N. Oliver (L)

Harold A. Rolls (L)

R. A. Simons (L)

Replies from Fellows:

J. M. AUSTIN-SMITH writes: In the space which is at my disposal I can only deal with what I consider to be the main groupings of the issues which the RIBA must tackle. I think there are three such groupings:

1. To improve the standard of architecture.
2. To improve the nature of the service provided by architects.

3. To improve the status of the architect. The issues involved in the first group are concerned with education and must of necessity be of a long-term nature. It is vital however to define the long-term policy since upon this depends the validity of the decisions taken in the day to day running of the Institute. The raising of the standard of entry to the profession, a much higher standard of qualification, the problem of the assistant category, and the emergence of the architectural technologist, are among the issues which must be tackled.

The issues in the second group must be largely influenced by the ever-changing

social and economical climate within which architects must work. This will entail overhauling and, if necessary, bringing up to date such matters as the Code of Conduct and the fee structure. The introduction of new methods will also be necessary and would include such matters as management training at all levels and the compilation of a Code of Architectural Practice.

The issues in the third group largely solve themselves if the problems in the preceding groups are surmounted. Nevertheless, an incredibly dynamic approach to public relations is a major issue. This by itself however would be only a holding operation. The other factors must be tackled at the same time if a positive advance in the standing, and remuneration of the architect is to be achieved.

CLIFFORD CULPIN writes: The RIBA should immediately engage itself with:
Internally, streamlining. The tempo of the Institute's work must be accelerated to have

some relationship to life "outside." A bright idea fed into one end of the slow-turning Committee/Executive/Council machine does not emerge at the other until months later when often the opportune moment for action has long since passed, The RIBA plods on while the stream of modern life goes swirling by. How can the speed-up be achieved? I don't know! One must get "inside" to find out.

Externally, salesmanship. Although restricted by the limitations of our Charter, we really must start actively "selling" the Architect to the public. Unless we overcome some of our precious professional inhibitions in this direction, we shall be dangerously handicapped in our battle with "packaged services" and other challengers. Concurrently with this drive, however, we must find some way of dealing with those of our members who by one piece of gross inefficiency can undo months of patient work on "public relations."

HAROLD CONOLLY writes: The big issue is how to preserve unity. Splinter groups will get us nowhere. The RIBA is ours—yours and mine. If we don't like what it does, we should say so—but stay members. No other body will do as well for us, anyhow.

The Council should consider immediately all ways possible of improving inter-professional relations, to inform members what it has done and why—and quickly, by such means as, e.g., press conferences, more readable articles in a re-cast *Journal*, and by more personal links with provincial members.

We need a quick follow up of the results of the Oxford Conference on architectural education, not only on intake, training and post-graduate research, but on far wider implications. And we must urgently continue discussions on qualifications with overseas societies

Next, there is finance. One thing is certain, the Institute must go carefully for a bit. A good time, surely, not only to watch expenditure, but to streamline administrative machinery and staffing.

The Sheppard Committee must continue, and even enlarge its scope, and all means available should be used to obtain better status and pay for the salaried member.

Other urgent problems which call for study are: (i) The Constitution of the RIBA and relationships with allied societies, and (ii) architects and directorships.

DOUGLAS JONES writes: Writing these notes for the Architects' Journal seems to me to be a bit like political canvassing—or trying to make one's case seem better than it is.

What one really has to say is roughly the same as the next chap, though one's interests may be slightly different. In my own case my chief interest lies in education, which is natural as I have been Head of the Birmingham School of Architecture for 11 years. Architectural education is a subject that is now in the centre of the political arena. Major changes in this field which, I think, are overdue, have been blocked by an attitude of laisser faire of which most of us

RIBA COUNCIL ELECTIONS

Gate. Gems

dgety

rably

and ctural from d exwhere igher, nany,

esign and g the

they

ctural

idays
) on
oving

ented art of mply tests.

rela-

and

L.







Left to right: J. M. Austin-Smith, C. H. Bingham Powell, J. Eastwick-Field.

have been guilty as members of the RIBA, but now that strong proposals have been put forward at the Oxford Conference, action seems to be on the way.

To me, one of the most encouraging things that has happened at the RIBA for many years is the publication of the Ad Hoc Committee's report, produced under the chairmanship of Richard Sheppard, on "Professional Status." The attitude of mind that is reflected in this document is the one that I would like to see in evidence at the RIBA.

PETER B. DUNHAM writes: "Better Architecture by Architects" and "More Architecture for Architects"; very briefly I consider that these are the aims on which the RIBA should concentrate.

The Institute should play a more positive rôle in improving the efficiency of the architectural service provided by its members, by running or instituting courses, printing pamphlets, etc. Also, more emphasis should be placed on this subject in the education provided by the architectural schools.

This improvement is essential to command the public's esteem, which is sometimes lacking, and to provide more building work for architects. The time is now opportune for architects to obtain more work from the speculative builder, to the benefit of the builder, the architect, and especially the landscape. That builders are receptive and co-operative was demonstrated at the recent Housing Symposium, and I am sure that a vigorous follow-up will at last produce results in a field of building that is a disgrace to our profession and the building trade.

Despite the Institute's present financial difficulties, a bold policy of publicity, propaganda and public relations generally must be followed. Finally, the Fellowship class must be made to mean something. Despite the enormous increase in members generally, the number of Fellows remains the same. Presumably the suffix "F" is considered a mark of senile decay instead of prestige and experience. Steps should be taken to attract Associates, whether in official or private practice, to become Fellows, so that Fellowship is looked upon as a hall-mark of experience and ability that would command a higher salary. An increase in subscriptions from this source would help the Institute and relieve the demands on the Associate, who should be regarded, as his title infers, as the junior member of the profession.

A. G. SHEPPARD FIDLER writes: I believe that the prime task of the RIBA is to support and press on with the work of improving the professional status and efficiency of the profession. The Ad Hoc Committee has pointed the way-action is now required in the shortest possible time. Every opportunity should be taken, in the field of public relations, to establish the place of the architect in the community so that his work is appreciated, understood, and required. This is especially necessary in these days of high pressure, big business enterprises, and it is essential for the profession to be well organized to meet the challenge. It may be necessary for the Scale of Professional Charges and the Code of Professional Conduct to be carefully reexamined in the light of rapidly changing conditions.

All efforts should be made to ensure that the architectural work of Local Authorities should be under the control of a qualified architect, who should be the principal officer in charge of his Department.

Another urgent matter concerns the training of architects. I believe the Council should give energetic support to all measures which improve and advance the standard of architectural training, and especially follow up the recommendations of the Oxford Conference.

Although as an official architect I am very closely concerned with all that affects the salaried members of the profession, I feel strongly that the members should not be divided but should work as a whole towards the highest standards of good architecture.

LEONARD C. HOWITT writes: Whether candidates for election to the Council of a learned society should indulge in what might be regarded as an "election address" is a debatable point. However, if the contributions invited by the JOURNAL succeed in reminding members of the RIBA of their duty to register their votes, that is sufficient justification for their publication.

The understandable limitations upon space make it impossible to refer to many questions which the Royal Institute should consider, and is, in fact, considering. As an elected member of the Council since 1947 I have supported every action which in my considered opinion was in the best interests of the profession as a whole, and I have no regrets. As Chairman of the Salaried and Official Architects' Committee for most of the time, I have had particular concern for the interests of salaried members. However, I deplore any tendency to divide the profession according to the way in which we are paid and regard the interests of the whole as paramount.

I am in favour of higher standards for entry and qualification and have no patience with apathy and inefficiency, I believe that the conditions most favourable to good architecture exist when the architect is independent in relation to the client and the contractor, and consider that the architect should justify his claim to be the leader of the building team by heading a team of independent consultant engineers and quantity surveyors, accepting full responsibility and quoting an inclusive fee for the all-in service. I favour a fully elected Council chosen for their capacity to make their own decisions in the interest of the profession as a whole, and not as mere regional delegates with a parochial outlook.

D. PLASKETT MARSHALL writes: My main interest is, of course, in the welfare of those in private practice, but as the whole of the profession is indivisible, I would like to see greater co-operation, equality of conditions of service, and security within the profession.

I have made a study of the situation, and problems of the architect employed in private practice, and of the possibility of the establishment of a pension scheme, administered by the profession. I have, in fact, prepared a draft scheme which, with the help and co-operation of the profession, could give a degree of financial security to all in private practice.

I know and can sympathize with the problems and aspirations of the publicly employed architect, and I believe that the terms and conditions of employment of architects in public service should be negotiated at the highest level by the RIBA.

The RIBA should set out to provide guidance and assistance in the many day-to-day problems that face architects in private practice.

An increase in publicity to the work of the whole profession is essential.

Collectively, the individuality and personality of the architect must be maintained.

R. DUNCAN SCOTT writes: In standing for election, I represent the view of the South Eastern Society of Architects, given by me to the Council in April, that the re-constitution of the Council is a "must."

I consider that representation should be based on regions, approximately coinciding with the existing Allied Societies structure, and that regions should vote for their own representatives. I realize that this would involve the formation of a London Society—which is long overdue.

This would give members the opportunity of knowing as persons, not as names, the men they vote for; would give an opportunity world Social in the I corretain structute.

ordin

each

tute. semi amo

Lef

RAII Inst

star tha inte

Thi

R

wa 1. Ins

> po ner aff

res of Ha

sh 1. to

ar 2. su

for elected members of Council to meet ordinary members at Society level during each session; and would provide incentive to members to interest themselves in and work for the profession through the Allied Societies, which could only improve unity in the profession.

1947

n my

erests

ve no

and

st of

n for

How-

which

f the

s for

no

cy. I Vour-

1 the o the

that

to be

ading

neers

res-

e for

ected f the

mere

look.

main

vhole

llike

con-

1 the

and.

d in

ty of

ieme.

e, in

with

ssion.

ty to

prob-

em-

terms

itects

t the

ovide

s in

f the

rson-

ined.

g for

South

y me

onsti-

d be

iding

cture,

own

ould

ety-

ty of

men

unity

I consider that Allied Societies should retain their near autonomy under this new structure and not be branches of the Institute. They should be used, however, to disseminate views and decisions of Council amongst members, to collect views of memtectural Education to ensure that the standards of the schools of architecture in all parts of the country are equally high. would also support proposals that a higher standard of general education should be required before commencing an architectural

I feel, too, that the Institute should more frequently make its voice heard publicly wherever buildings of architectural merit are to be destroyed or new schemes proposed of low æsthetic quality.

So far as practice is concerned. I would

General Meeting, for a full review of the Constitution of the RIBA Council and for changes in the method of election of its members and for the present financial situation to be re-examined to ensure that funds available and to be called for from members are used in the best possible way for the benefit of all.

In addition I think the Council should tackle the following:

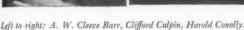
1. The improvement of architectural educa-

2. Wide publicity to make known the architect's contribution to modern life.

3. Encouragement by every means possible of the public to make greater use of archi-

Finally, I believe architecture is a noble profession and the furtherance of good architecture and good conditions for architects can be best obtained by showing the public by jobs well done that architects are worth employing and that as a profession we are united.





bers for transmission to Council, and to give opportunities to all members who are prepared to serve and work for the profession.

RALPH TUBBS writes: Although the Institute has many different functions to perform, I feel that perhaps its most important task is to raise the status of the architect. This, I am convinced, can only be achieved by working for the improvement of the standard of architects. I believe, therefore, that the Council should take a more positive interest in the work of the Board of Archiencourage every effort to ensure that bylaws are in line with contemporary knowledge and techniques.

With regard to the Institute's domestic policy, I would support an independent financial examination and review of organization and methods to see whether economies might be made without impairing efficiency. Expenditure should be concentrated where architecture will most benefit. I would also support steps to ensure that as many members of Council as possible are democratically elected by postal ballot.

Replies from Associates

A. W. CLEEVE BARR writes: The most immediate issues to be faced by the RIBA, in my opinion, are those which were the subject of the resolution, which I put forward at the recent AGM, viz:

1. To put the financial affairs of the Royal Institute in order, and in particular to ensure that all effective professional and public activities are not sacrificed to the mistaken policy of paying off the mortgage on the new building quicker than we can reasonably afford:

2. To reform the constitution of the Council to make it more democratic and more representative of the feelings of the majority of members.

Having begun to put its own organization and affairs in order, I suggest that the RIBA should face up to the following issues:

1. Raise the education standards of entry to the profession, particularly in science subjects, and press for early joint training of architects, builders, engineers and surveyors; 2. Introduce post-entry training courses on such subjects as contract management, cost control, building types, services in buildings, problems arising from the introduction of new materials and techniques, etc;

3. Define more clearly in the code what services the public should expect architects to perform in return for their fees-to stop the scandal of the few black sheep who produce little more than a dubious eighthscale:

4. Give every support to the proposed local government architects' society;

5. Endeavour to abolish the practice of æsthetic controls by planning authorities over the work of any qualified architect.

BRIAN BUNCH writes: I offer myself for election to the RIBA Council at the invitation of the Council of the Northants. Beds. and Hunts Association of Architects, who consider that the RIBA Council would be more representative and better able to serve the interests of the profession as a whole if it included more architects from the

JOHN EASTWICK-FIELD writes: RIBA is "apt to be regarded as a fuddyduddy body" (The Observer, May 11). What a state of affairs! If the Institute is to have the respect of the public which it ought to have for the sake of the profession it must be seen to be an active body representative of and fully supported by its members. This, at the moment, it is not, and for that reason I am in agreement that the first step is for the Council's constitution to be altered so that all its officers and councillors are directly elected by the members.

I believe that in the immediate future the issue which the Council must regard as its most serious responsibility is the improvement of architectural education. It must see that the valuable work of the Oxford Conference is not wasted nor its recommendations shelved.

More recognition should be given to the fact that different sections of the membership have different interests and steps must be taken to deal with the particular problems arising from them: there are, for instance, quite distinct problems, not adequately dealt with, associated with (a) private practice; (b) senior official appointments (in the face of opposition from other professions); (c) assistant architects in both official and private offices.

Generally, in order to obtain the support of the membership which is so sadly lacking, the Institute could well be less detached, less "private and confidential"; and it could make better known what it does do in a more lively Journal.

W. G. HOWELL writes: The most important task facing the Council is to regain the confidence of the membership and to help reestablish trust amongst the various sections of the membership. It could be a disaster for architecture if the Institute were to be jeopardized by large numbers of young architects becoming fed up and resigning (or never joining) or by provincial architects feeling the Institute in London so remote I support the need, expressed at the Annual that they withdrew their support. An atmosphere of frustration and mistrust has grown up over the last few years, until to the majority of the profession the Council has become a "Them," a remote in-board club, thought, unjustly but understandably, to be responsible for and indifferent to all our troubles. The Council's lack of sensitivity to this atmosphere was chiefly responsible for the eruption at the AGM.

In order to restore morale the Council must:

- 1. Show willingness and determination in implementing the Barr-Cox amendment;
- 2. Take active steps to bring into effect the recommendations of the Oxford Congress;
- Work out and put before the profession a policy for the evolution of the Institute over the next few decades;
- 4. Allow the student voice to be heard on the Council (no taxation without representation!) possibly by having a corporate member nominated and voted for by student members.

HARRY JUDSON writes: I am glad to respond to your invitation to address a few words to voters. The first thing they should realize is that only 10 seats, out of a total Council of 70 members, are to be filled by direct election each year.

I would like to see the decision of the AGM, to review the organization and business affairs of the RIBA, extended to include also a comprehensive report on the membership, organization, areas, activities and finances of the Allied Societies and Branches. I believe that this would disclose a chaotic state of affairs and would show some Societies and Branches to be practically moribund. Large numbers of members remote from London are virtually cut off from

Technical and Clerical Services. I have had some previous experience of this work as a member of the staff side of the Yorkshire Provincial Council of this body.

As the post-war period recedes and building conditions become stabilized, architects are being judged less on promise and more on performance. The quality of service given by architects, however employed or remunerated, must be continually raised and satisfaction must be given by the production of buildings not only of good design, but within the estimated time and cost and economical in maintenance. It is part of the work of the RIBA to facilitate the achievement of this, for upon it depends the future of the whole profession.

ROBERT PAINE writes: Apart from the major issue of reform for which we voted at the AGM the Institute should concern itself to get more of the general volume of building work into the hands of the profession. Not merely is this desirable for the nation's self-respect: if architects as a whole can be made to prosper a climate will be created in which many desirable improvements may be brought to pass. This means advertising, not only of the subtle kind which benefits the already lucky ones, but widespread, forthright and effective. Advertisement today is no shame but a downright necessity for survival in competition and it should not be impossible to put over something which dukes and dustmen (Transport and General Workers Union) patronize and house-agents commend. Two conditions are requisite—a worth-while product and ample funds. To secure the one and guarantee the other should be the Council's main concerns.

for election, and think that the RIBA Council should work hard to ensure the success of the Society of Local Government Architects.

them.

on Ec

system

collab

indust

Remu

is to 1

tion, a

of a

are re

office

and t

Mana

somev

sure t

in arc

for th

as it

THUI

lution

to ob

salari

Annu

have

the s

siona

local

still o

by th

discu

the I

shou

polic

resto

Instit

requi

I sug

appr

of th

cial repre

laws.

the 1

meth

and

place

centr

of fu

of th

inclu

(a) A

start

cont

ably

to th

(b) '

arch

(c) 1

latic

indi

(d)

tow

If your annual subscription does not give you value for money, don't resign but vote for reforms! A new Constitution should be written to give more Proportional and more Regional Representation before the next election.

In numbers Associates are to Fellows as 6 to 1, but on the Council as 6 to 12 and on the chief committees as 6 to 42; Licentiates are even less represented. Should not all Local Societies hold their annual general meetings after 6 p.m. and elect their representatives at the RIBA by ballot by post? Can public relations be improved? Should the Secretary tour the world again? Are the profits of the RIBA Journal small because advertisers suspect that few care to read gobbledygook? Should not an Intermediate exam cater also for draughtsmen who do not intend to become architects? Should not standards of entry be raised?

I say: "Ignore all candidates who have been canvassed by Local Societies or nominated by, or prominent at, the RIBA!"

GEOFFRY POWELL writes: The principal objective of the RIBA in my opinion is the improvement of architecture in this country. The greater part of present building compares badly with that in a number of other countries and has resulted not only in the loss of opportunities provided by bombing, but in the positive, if gradual spoiling of our cities and country towns. The main cause is the low level of aesthetic interest and ambition both in client and architect, and the solution, although a long-term one, lies in education. It is, therefore, this aspect of the Institute's work that I regard as of primary importance. The Institute is making great efforts to obtain popular recognition and wider employment for the qualified architect. While this will have some effect as a short term measure the need for popularizing the architect arises because the general standard of architecture is not sufficiently high to sell itself.

C. H. SIMMONS writes: This year I have been nominated for election by the RIBA Council and the County Architects' Society. Thus, one might infer that I am not strictly confined to the "official lobby" if, indeed, such a thing exists. I naturally deplore the idea of a divided profession and I have during the post-war years liberally shared the load of my office with practising architects. This experience, coupled with my knowledge of salaried office affairs, has given me an insight of both organizations, particularly the remuneration and status of the key architects who form the sound core of our profession. I am keenly interested in the RIBA Ad Hoc Committee and the survey it is preparing, and I would identify myself vigorously with these pursuits.

Status is today's cri-de-coeur but we shall not have it simply by shouting for it. The idea of the "whole man"—artist and businessman—is neither the public's nor the industry's conception of us because in the past we have not given this conception to









Left to right: W. G. Howell, D. Plaskett Marshall, Hugh Wilson, C. H. Simmons.

participation in RIBA affairs. (Such members can, however, vote in these elections and it seems inexplicable that so many neglect even this simple duty.)

I support the formation of the proposed Local Government Architects' Society and the taking of all possible steps, in collaboration with other professions, to secure a voice in the National Joint Council for Local Authorities Administrative, Professional,

This is not for one moment to suggest that the Institute should cease meanwhile to be a "learned" society nor on the other hand why it should not do something about all those chipped cups,

C. H. BINGHAM POWELL writes: I have been nominated by members of the staff of Surrey County Council as their candidate

hem. Here I hope the Oxford conference on Education will make its contributionthe overdue revisions of our training systems, the standard of selection, and collaboration and training with the building industry and not academically outside it. Remuneration is today not what we think is should be and I feel the long-term answer is to be found in status and public recognition, and then remuneration will become less of a battle. It is clear that higher salaries are required for those architects who in any office are placed between the junior posts and those of the administrative group.

RIBA

the

ment

Rive

ld be

more

next

vs as

and

icen-

d not

neral

epre-

ost?

bluor

e the

cause

read

diate

o do

nould

have

nomi-

cipal

s the

intry.

com-

other

n the

bing,

ng of

main

terest

itect.

one.

spect

as of

aking

nition

lified

effect

for

e the

have

RIBA

ciety.

rictly

deed.

e the

have

hared

archi-

n my

given

par-

of the

re of

ed in

the

entify

The

busi-

ne in-

n the

on to

1 22

Management has become a fashionable. somewhat facile word today. I am quite sure that business consultants have no place in architecture and will never be a substitute for the architect who can put his own house, as it were, in order.

IHURSTON WILLIAMS writes: My resolution, calling on the Council to take steps to obtain more adequate representation for salaried architects, was passed at the 1955 Annual General Meeting. Since then there have been some advances to this end, in the setting up of the Ad Hoc Committee, the appointment of a secretary for professional relations and the formation of a local government architects' society. But I still consider that there is much to be done by the Institute on this issue.

This year the AGM found it necessary to discuss the failure of the Council to plan the Institute's affairs. It is even more vital than three years ago that the issues raised should find immediate reflection in the policies of the new Council. I agree with those members who made it clear that to restore confidence in the leaders of the Institute immediate and urgent action is required.

I support whole-heartedly the amendments, approved by the AGM, calling for a review of the Institute's administrative and financial policies: reform of the present unrepresentative Council and inadequate bylaws. I also believe that consideration should be given to the means of increasing the number of open competitions and the methods of advising clients on the choice of architect

HUGH WILSON writes: The financial policy and organization of the RIBA must be placed on a sound basis and for the present the resources of the Institute should be concentrated on a limited number of objectives of fundamental importance to the well-being of the profession. In my view these should include

(a) Architectural education. The work started at the Oxford Conference must be continued to ensure that architects are suitably trained to fill their vital rôle in relation to the building industry.

(b) The status and financial reward of the architect

(c) Public relations. Of great importance to architects, this work must not neglect relations within the profession and in the

(d) The rightful place of the architect in town planning. Only in this way can many 6. the Subtopian horrors be alleviated.









Left to right: A. Douglas Jones, A. G. Sheppard Fidler, Ralph Tubbs, Leonard C. Howitt.

It is apparent that much good work is being carried out by the committees of the Institute, but there is a need for some reorganization of Council procedure to enable prompt action to be taken to bring the work to fruition.

Replies from Licentiates

W. N. OLIVER writes: I have on many occasions made propositions at the Allied Society Conferences which have in due course been put before Council. Some of my suggestions have been accepted, others have been rejected, and as the Council are the only people in a position to hear each side of the case I have always been satisfied with their ultimate decision.

I hold the principle that it is wrong to pre-judge any subject or anybody who is sitting in a position of deliberation until one is actually there themselves and can hear both sides of the question. Under the circumstances I would prefer to refrain from comment upon the Council of the Institute until, if elected, I am in a position to judge first hand

HAROLD A. ROLLS writes: The issues with which I feel the RIBA should be primarily concerned can be briefly summarized as

1. The improvement of the status of the architect:

(a) By taking immediate and positive steps to endeavour to improve the Registration Act, which in its present form shackles, instead of protecting, the architect.

(b) By the improvement of the educational system, particularly on the "business" side, to better fit the young architect to compete with the high pressure salesmanship encountered on all sides today.

(c) By taking more effective action in the task of educating public taste in architecture, especially in the fields of domestic and small industrial building, and

(d) By taking rational steps to keep the intake of architects in step with the demand for architectural services.

2. The improvement of the RIBA:

(a) By taking every possible opportunity of increasing the usefulness of the Institute to

the ordinary member.

(b) By stimulating to the utmost interest in the Local Associations, so that as far as practicable every member has direct contact through his Association with the Institute,

(c) By reorganization of the Council to give increased representation from the Local Associations.

R. A. SIMONS writes: I am 54, and have spent some 25 years in the study and practice of architecture in different parts of the country before joining the staff of BRS in 1945

I believe that architecture as a profession, if it is to realize the greatness of its future, must adapt itself to changing conditions. The Ad Hoc committee is doing good work towards improving the position of architects but there is more to be done. Reform in education is one of the major questions of the day but a more urgent problem is to define the role of the architect in our modern society. He has an important part to play in private practice, in official service, in research and development, and in industry; each of these calls for its own specialized training, and his education must be adjusted accordingly.

Among the difficulties that bedevil the architect in his work is the multiplicity of controls—regulations, orders, bye-laws, forms—which he must satisfy. The unification and simplification of these is a matter requiring the unremitting attention of the Institute.

The domestic problems of the Institute are far from overwhelming. the need for reform within the Institute itself, but reform must follow careful consideration. Hasty action in the panic of the moment would do more harm than good.

Of the twenty designs selected this year four can be called "outstanding" with some degree of justification. Left to right: This Knifecut Pruner made by Wilkinson Sword Limited is an example of functional efficiency, sturdy construction, which is comfortable in the hand and light in weight. It is one of a series of fine tools designed by Hulme Chadwick, a designer who is also an extremely competent gardener.

Ekco's "Superbath," designed by M. O. Rowlands, is a good example of a logical combination of materials. The polythene bath is supported on a well-detailed polished timber folding stand, which can also serve as a support for a carry-cot.

This distinguished set of cases in leather was designed by K. H. Paterson for S. E. Norris & Co. Ltd. Remarkably light in weight they are a challenge to the newer materials being used for air-luggage. The handles are particularly interesting and an altogether fine feeling of quality is achieved.

Straightforward solutions of problems are invariably the best and this design by Robert Welch for J. & J. Wiggin Limited is no exception. A stainless steel toast rack of pleasing simplicity. Only its name "Olde Hall" is suspect.





FAR FROM 'OUTSTANDING'

John and Sylvia Reid review Designs of the Year, 1958

The job of the Council of Industrial Design is to encourage good design in British industry. It has had a considerable effect so far and will doubtlessly increase in power and influence as the success of the policies it encourages become more and more apparent. A year ago the Council took the courageous step of selecting a number of products which had been exhibited during the first years existence of the new Design Centre and labelled them "Designs of the Year." The actual selection was made by a panel of Royal Designers for Industry.

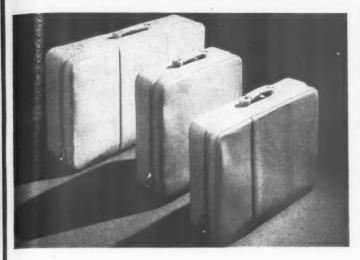
This year, encouraged by last year's success, 20 " outstanding designs" have been selected. If it is assumed that "outstanding" means what the Oxford dictionary says it means, then the task of finding 20 such designs is unlikely to meet with much success. To label too many things as outstanding is to lower the standard below the level at which the selection remains interesting. That this has happened this year is evident from the poor notices in the popular press and the general lack of interest that has been aroused. The technical press and design magazines are naturally interested in the selection, but the idea of the project is surely to interest the general public in design, not merely to appeal to the professionals. A collection which is safe is also non-controversial, and to succeed the collection must be bold, advanced and controversial. What better result could there be than letters from members of the general public to the press protesting about the choice? If sufficient enthusiasm could be aroused we might see the day when people send in their own alternative choices for the top 10 or 20. A really controversial choice would greatly stimulate interest in

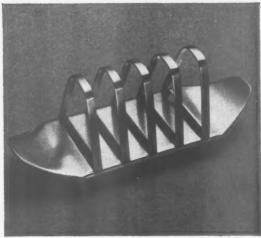
design generally. It is to be regretted therefore that only about four of the items in this year's selection can really be called "outstanding." Of the rest the majority are good of their kind but safe and unexciting, whereas one or two of them should never have been chosen and mental reservations about them are apparent even in the judges' reports.

This year the judges were Sir Walter Worboys, Chairman of the CoID; Noel Carrington, publisher, printer and typographer; Geoffrey Dunn, Chairman and Managing Director of Dunn's of Bromley; Wyndham Goodden, Professor of Textile Design, Royal College of Art; and Jack Howe, architect and industrial designer. They also advise the Council as members of the Design Index Selection Panel.

All products shown in the Design Centre during 1957 were eligible for selection, other than those items which had previously won an award. However, if a selection of designs is going to be labelled "... of the year, 1958," some further qualification is surely needed. Some of the designs were circulating in 1956 and one is even illustrated in *Designers in Britain* 5, which deals with work carried out during the period 1954-56! This must surely be generally confusing, especially when several very interesting objects which definitely appeared during the last year and have, as far as one knows, been shown at the Design Centre, have not been selected.

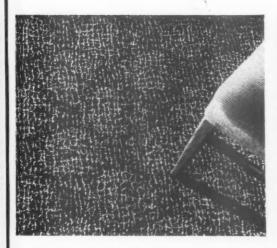
Come on CoID—a practical object is not necessarily a dull one, as can be seen by any visitor to the Design Centre, so let us have a more exciting and controversial choice next year, even if it means that there are only five designs of the year.





The designs are exhibited rather shyly, it appears, in a small space at the back of the Design Centre. Surely the shop window end in Haymarket would have been the best place? The Duke of Edinburgh again visited the exhibition and presented certificates to the lucky manufacturers. Arrangements for this year's visit were

an improvement on last year's, which were strongly criticized by the JOURNAL. This year, instead of being kept in the background the designers stood near their work and all had the opportunity of meeting the Duke. They also received copies of the certificates presented to the manufacturers.



958

that

ection

t the

i un-

never

them

boys,

isher,

rman

mley; esign, t and cil as

1957 items

if a

f the

urely

1956

in 5,

eriod

sing,

vhich

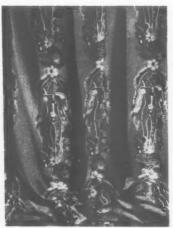
e, as

entre,

arily

esign

ntroe are



Far left: this Wilton Broadloom carpet "Artkurl," made by William G. Gray & Sons Ltd. and designed by the company's design staff is an example of one of many similar overall patterns which are now available.

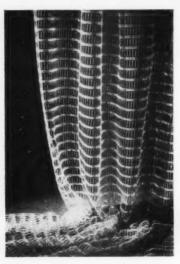
Left: a woven textile "Adam" designed by Keith Vaughan and made by Edinburgh Weavers. This is a large scale pattern designed by a modern painter and translated into a woven fabric with great competence, but surely a design of this sort is better printed.





Far left: this enamelled cast-iron ovenware is designed by David Queensbury for Enamelled Iron & Steel Products Company. These casseroles are nicely shaped, pleasantly coloured, and can be brought straight from the oven to the table, but the sizes are so small that it is difficult to imagine what useful purpose they can serve in the average kitchen.

Left: this printed textile "Minster" is also made by Edinburgh Weavers, but to a design by Humphrey Spender (architect). The design is described as being derived from traditional stained glass (!) and is again the result of the work of an artist who is primarily a painter.





Far left: "Vision Net" lace cur aining made by the Clyde Manufacturing Company and designed by F. J. Hobden with the firm's design staff. This design shows signs of fresh thinking in an old industry. Left: "Hiflo" No. 65 Bibcock made by the Barking Brassware Co., Ltd., and designed by the company's design staff.





Far left: this tableware is made by Ridgway Potteries Ltd. and designed by Tom Arnold (shape) and Pat Albeck (pattern). To quote from the Judges' recognise that the pattern itself breaks little new ground . "The shapes are modes and very traditional"—now then can this be outstanding?

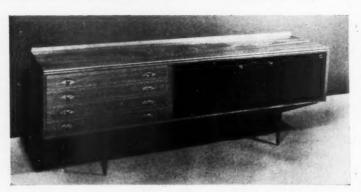
Left: the "Vistavu" slide viewer is made by Rank Precision Industries Ltd. and designed by H. R. Stapleton, assisted by H. Upjohn. This slide viewer is the size of a small television set and by no means inexpensive. It has a pleasant workmanlike appearance, but it lacks refinements such as magazine loading which its American counterparts have.





Far left: this pleasant shaped lavatory basin called "Carlton" is made by Shanks & Company Ltd. and designed by their design staff. "The Judges chose this bracketed version since the pedestal normally supplied appears to have been designed by another hand, being rather clumsy for so elegant a basin"

Left: a paraffin oil convector heater made by Tailan. (Ayctiffe; Ltd. and designed by the company's design team. This is a pleasant enough design but even the Judges commented that "Further thought should have been given to the design of the feet and also the maker's nameplate which, though decently small and unobtrusive, could be improved."



Left: the "Hamilton" sideboard made by Arcnie Shine Limited and designed by Robert Heritage. To quote again from the Judges' report "Note the attention to detailing, particularly the contrasting textures and timbers. These give it, in a twentieth century idiom, something of eighteenth century elegance without in any sense looking backwards."

ining Company the es signs

ade by the designed

Ridgway Arnold To quote ges ks little are modes an this be is made and ed by e size of a inexpensuch as an

ory basin

ks & r design keted upplied other

gant a

made by

d by the

leasant

hould

d be

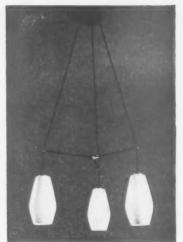
feet and hough

nade by by Rober Judges' ing, and th century ry

Right: the wallpaper " Phantom Rose" made by The Wall Paper Manufacturers Limited designed by Audrey Levy. This again is a pleasant design, well drawn and well executed, but with little claim to being " outstanding."

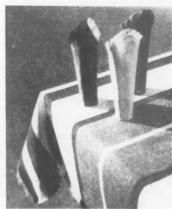
Far right: a pendant light fitting from "Satina" range of AEI Lamp and Lighting Co. Ltd. designed by Nigel Chapman of the AEI design team headed by L. H. Hubble. According to the Judges it is often hard to distinguish one lighting fitting from another, and this example is no exception. Surely the selection of highly derivative work is not to the credit of either the Judges or the Council. Below: Axminster body carpet, "Royal Gobelin" made by Tomkinsons Limited and designed by Neville and Mary Ward (architects), and one of m range of related designs by these designers. Below, centre: " Taperback" chair made by Stafford Furniture Limited and designed by John Neville Stafford. This angular looking chair does not even pass the first test that all chairs must pass. It is most uncomfortable and its selection is to be wondered at. Below, right: "Riviera" tablecloths and napkins designed by A. Ingham for John Shields & Co. (Perth) Ltd.





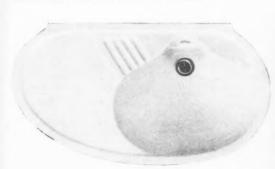






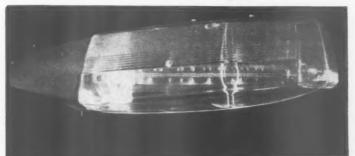
But why not these?

Everyone will form his own opinions on the " Outstanding Designs of 1958," but here just for the sake of argument are four designs the judges might have chosen-(a) Why not this chair (right) designed by Frank Guille for Kandya Limited, surely the outstanding chair of the year? (b) And then there is the Adamsez Lotus Basin (below), a piece of functional design that points the way to more interesting solutions of the lavatory basin design problem? (c) Or this watering can (far right), surely one of the most progressive steps in plastic gardening equipment? Designed by M. O. Rowlands for Ekco, it in no way detracts from his excellent baby's bath, but which is the more " outstanding "? (d) And as for lighting fittings, why not Richard Stevens' street lighting lamp for Atlas (below right)? Chosen by the C.O.I.D. to represent British Industrial Design at the 11th Trienniale where it was awarded a Gold Medal.











Clifford P. Howells, A.R.I.B.A. Fred W. Pooley, F.R.I.B.A. W. G. Howell, A.R.I.B.A. S. W. Milburn, F.R.I.B.A. Richard Sheppard, F.R.I.B.A. Chairman RIBA Ad Hoc Committee John Whitehead, Student R.I.B.A. Paul Ritter, A.R.I.B.A. Martin Sylvester Frederick Hiorns, F.R.I.B.A.

Revive Local Chapters

Sir.—I agree wholeheartedly with the opinions of Mr. Cleeve Barr in your issue of May 1, but I feel that the cleavage between membership and Council goes very deep and must be tackled not only by electoral reform but also by strong action at local Chapter level to establish some degree of effective contact between the elected representatives and the general rank

and file member. We must attack vigorously the apathy that afflicts the local Chapters. It is all very well to have lectures and visits but it is appalling to realize that there is not a single local meeting—from my own experience—at which the views of the members are consulted about matters of great moment which are being dealt with in the central Council. This is, in my opinion, the main cause of the revolt of the younger Associates against the Council. The Council is—it is obvious that it must be-Council iscompletely out of touch with the opinions and feelings of the great bulk of its members. Locally it is said that the interested member can become a member of the local Committee but this is not sufficient. The local Chapter must organize business meetings so that its representative on the Council can know how to act in the interests of the general member-not just the Committee. The RIBA must be the only national body

which has no properly organized method of ensuring that the Council knows the members' views. In most other bodies the elected representative discusses at local meetings the subjects on the Council agenda and reports to members on the Council's discussions. In this way the local member has a sense of participation and Council is properly controlled; objections to its proposals can be voiced and objections raised in a democratic manner.

At the present time the Council concocts all sorts of schemes, completely "in camera" and it is not until the "fait accompli" is announced in the RIBA Journal that the poor member has any idea much less actually approved. This again leads to a fatalistic and apathetic "head against a brick wall" feeling in the mem-

I am hoping to effect some revision of this attitude locally, and if any members of the Institute living locally read this and agree with the ideas expressed, I would like to hear from them, whether they are members of the local Chapter or not.

CLIFFORD P. HOWELLS Walton-on-Thames.

RIBA's Serious Failure

SIR,—Congratulations to Cleeve Barr and Anthony Cox for successfully moving their resolution at the Annual General Meeting. This was achieved because these people had the courage of their convictions and took the risk of making themselves unpopular with the powers that be. The pity of it is that it had to be done in public and the unhappy domestic issues dragged into the national press national press.

The same result could have been achieved 33 elected members of the Council had had the same courage and done exactly the same thing at any one of the private Council meetings which took place during

the session.

These elected members (even if they are in a minority) cannot be absolved from their responsibility for the present financial policy of the RIBA. Many of them have served on the important House and Finance and Executive Committees. It is clear that they have not directed their minds to the domestic matters of the RIBA.

Election of members by the ballot box will

not in itself solve our problems unless those who are elected are prepared to devote a good deal of energy to the less glamorous

aspects of RIBA work.

FRED POOLEY.

Aylesbury.

The Frosty Welcome

SIR,—By nine o'clock last Wednesday it became all too plain that our inability to ventilate our views at the RIBA by calling our inability to ventilate a general meeting was matched by our inability to ventilate a general meeting. Everyone was so plainly looking forward to getting out into the sweet smell of Portland Place (Portland Place) land Place (and across to the Windsor Castle) that I decided not to raise what is, in any case, rather a minor domestic issue compared

to the major issues which face us.

I wanted to urge the Council to consider whether it would not be better rather than having a "Finance and House" Committee, to treat these two aspects of our affairs separately. Everyone seems very concerned that we should set our house in order, and I would like to see this done by having a House Committee to deal with all matters concerning the use of the premises, thereby leaving the Finance Committee more time to think about Finance-no bad thing, considering recent events.

This thought proceeds from a feeling that the dear old White Elephant of Portland Place somehow lacks the congenial atmosphere most of us would like to find at the headquarters of our profession—not only as a physical environment, but in its cater-

ing, facilities and reception.

We must make up our minds whether or not any changes that may be made in furniture or decoration should aim at trying to embalm as a sacred relic the taste of the mid-thirties (surely a rather depressing thought). Whatever is to be done must be done as part of a long-term policy.

It depresses me beyond measure to hear the new dining room referred to as the New Canteen. This is symptomatic of an attitude, conjuring up gloomy vistas of spam and bruised lettuce. Surely we want a dining room which will serve up food we could be proud to offer a guest (which is not the case at present) and what is more a range of choice from a good sit-down lunch to soup. bread and cheese at a price that students (and impoverished architects like your correspondent) could afford. This needs really

belo

SIR

10 a

to b

be a

a ui

was I c

inco

tutio

I th

ing As

thin high

dre

my not

led nic pas N

day

uni

as to abo

har

or

ma

ex

sio

wo

imaginative catering.

The present enquiry and reception arrangements are very sad (always with the honourable exception of telephone enquiries, which are dealt with in a highly civilized manner). I was queueing up recently to buy a form of contract, and noticed ahead of me an elderly architect who (it transpired) had come up from the country to ask advice about fees. He was asked to wait, and when someone eventually came, the interview was conducted standing in that chilly hall. Some time later I left the building, and saw the poor old gentleman sitting forlornly leaning against the Gold Medallists on that agonizing seat with his feet dangling two inches from the floor. Whether he was still being dealt with, or had just collapsed from rage or sorrow, I never found out. What would we feel like if we were treated like this when we went to see our solicitor or bank manager? In those of us who live in London, familiarity with this situation has bred contempt and ultimately indifference, but it must be pretty dim for members coming up from the country. Surely we could devize a more humane way of looking after visiting visiting

There are many such matters which need attention if Portland Place is to become the kind of headquarters for the profession that we can look to with affection and visit with pleasure. Surely here is a place where some of the women members (who are woefully under-represented on RIBA committees) could bring their civilizing influence to bear. I am convinced that effective action cannot be expected while consideration of these matters shares an agenda paper with our financial problems.

W. G. HOWELL.

London

Loyalty

SIR,—I write to congratulate you upon your leader under the heading of "Perceptive Loyalty." A most important factor in voin feater index the fleating of recep-tive Loyalty." A most important factor in connection with the future well-being of architecture is to have a strong and pro-gressive RIBA. Despite recent criticism, the RIBA have done a magnificent job of work for the profession in the past, and I feel sure with the support of all members will continue to do so, and I think your leading article gives very helpful guidance in the present rather difficult time.

S. W. MILBURN.

Sunderland.

Deferred Credit

SIR,-In your issue of April 24, ASTRAGAL was good enough to give credit to Gordon Ricketts and, by implication, to the Ad Hoc Committee for the recent success in getting tax relief on professional subscriptions. I want to point out, however, that negotiations with Inland Revenue, culminating in this success, have a pretty long history. The RIBA, for instance, took a prominent part in a joint deputation to the Treasury in 1949, and in 1951, submitted a memorandum on the subject to the Royal Commission on the Taxation of Profits and Income.

In this, and similar, moves, the Secretary, RIBA, and his staff as well as the Salaried and Official Architects Committee were directly involved. While, therefore, the Ad Hoc movement has taken the matter over in the past year or so, it is fair to say that we have been lucky in simply being "in at the kill." Long term credit therefore belongs to Bill Spragg and to the various members who have fought for so long for this concession.

RICHARD SHEPPARD.

r the ude and

d be case e of

ients

cor-

nge-

hon-

iries,

buy d of

ired)

lvice

hen was

ome ning zing

lealt or We ger? liar-

mpt t be

the оге

eed

sion visit

ere oe-

om-

nce

vith

pon

in of

oro-

the ork

feel

the

GAL lon

ing

his The art

49

on the

ry,

Ad in nat ore

Architecture, Or Snobbery?

SIR.—The worst of people who have been to a university is that they are quite unable to believe that people who haven't can really he any good. I once read an article on Robert Adam by a member of the staff of a university who blithely stated that Adam was trained at Edinburgh University.

I cannot agree with your suggestions that all the schools of architecture should be incorporated in universities or similar institutions, nor that all architects should have to train as full-time students in the schools. I thing it is an advantage that there should he many ways of qualifying and people should be free to choose which they prefer. Each method provides a check on the working of the others.

ing of the others.

As to incorporating all the schools in universities, I think independence is a good thing. I suppose the AA School has the highest reputation of all and it is independent and proud to be so. Many of the dreariest schools are in universities and in my experience those who trained in them are the potticeably more invariantiate or know. not noticeably more imaginative or know-ledgeable than evening students of polytech-nics or people who taught themselves and

passed the external examinations. Not everyone is happy under the day to day supervision of teachers, and the fairly uniform styles in the various schools are due as much to the compulsion to conform as to voluntary emulation. The proposal to abolish the external examinations would also keep out for ever those people who did not have the opportunity of going to a school, or who wished to switch from a related profession (like Mies van der Rohe) or who fell foul of their studio master (and studio masters are far from infallible). This does not concern only a handful but from my experience quite a proportion of the profession. A system similar to that which you are advocating operates now in Russia, which is not exactly leading the architectural world, and in France, where the only architect with an international reputation is Le Corbusier, who was not trained as an archiabolish the external examinations would also Corbusier, who was not trained as an archi-

The pioneers of modern architecture had nothing but scorn for the "academies." Have you already forgotten their struggles? Don't let us sacrifice architecture to snobbery.

JOHN WHITEHEAD.

London

Education Reform

SIR,-I am very pleased with the support Eric Heaf gives to my recommendations, knowingly or not, for the reform of architectural education (AJ, November 22, 1956). Such of his sentences as, "the staff should direct not discipline" and "the only compulsion should be the student's enthusiasm," pusson should be the student's enthusiasm," show basic agreement with my point of view and make sense only if we revise, as we both suggest, the techniques of teaching and learning deeply engrained.

The facts are so very simple:

1. Not enough is learnt, methodology is virtually ignored.

2. Students learn more and better if them.

2. Students learn more and better if they

learn with enthusiasm.

3. Enthusiasm comes with things relevant

5. Enthusiasm comes with things relevant to the student's interests.

And so the merit of Mr. Heaf's suggestions, and my original proposals, become obvious: they increase the relevance of the work, so they increase the enthusiasm. And this, as we have seen, leads to the significant increase in quantity and quality of

learning which are the basic requirements. Two teachers of some experience think similarly on this point and have gone to the trouble to make their views known. Progressive psychological evidence shows them unquestioningly right. And it is of further interest that similar proposals come from one who was a brilliant student during the self-same years at Jiverpool in which I the self-same years at Liverpool, in which I was a very ordinary one. I submit that our suggestions are indeed "an immediate remedy" and practicable "alternative." PAUL RITTER.

Nottingham,

One-Coat Logicote

SIR,—In your issue of May 8, Eric Heaf delivers himself of his plan for architectural education with a simple assurance seldom experienced outside Corb-writings or party political broadcasts. He states: "We must define the end product, ascertain the most suitable raw material and then evolve a

suitable raw material and then evolve a production process."

Scraping off the one-coat Logicote with which his thesis is decorated, one finds that he is recommending less theoretical instruction in schools in favour of more practical work. This is precisely why some people (including myself, after two years at the AA), have decided against school training and instead pursue the laborious system leading instead pursue the laborious system leading to the External examinations which, it appears from the AJ, are now viewed with

general disfavour.

If I may, with reluctance, consider myself a potential "end product" (revolting term!), is it really impossible to devise an examina-tion which will decide whether or not I have reached a standard of architectural

have reached a standard of architectural education high enough to entitle me to call myself an architect? If such an examination can be devized, whiy is it necessary to insist that all architects be school trained?

I find myself here in line with John Basing (AJ, April 24) and his plea for a reformed Special Final. But a further point is that architectural education differs from other technical educations, such as that required by the medical profession, in that creative design is involved, and this is a subject which should be studied at length and without haste. It is therefore unwise to place a time limit on the period of education. Eric Heaf agrees with me on this. But since the present inadequate school syllabus extends over five years, reformation must extend this time further to achieve the satisextends over five years, reformation must extend this time further to achieve the satis-factory "end product." Who, but a dilettante of the age of elegance, can afford to spend more than five years at a full-time school? If the reformed school thus becomes a part-time institution with its students working in time institution, with its students working in offices when not at school, it would then seem that we are back where we started. Some of us, ignorant illegitimates (architecturally speaking) that we are, attend lec-

tures and courses now, and attempt, in divers ways, to develop our abilities in an atmosphere free from the particular standardised aesthetic individual to each architectural school. It is a way followed with success by some of the Great Ones.

MARTIN SYLVESTER.

Unton-on-Severn.

LCC Extension

SIR,—Somewhat belatedly my attention has been drawn to an article in your Journal of April 17, on the above subject. From my standpoint the good points you raise are marred by several references to the "Giles Scott" building—which is certainly a mistake, and with which I will first deal. When the London County Council acquired the York Road Site, I was invited to a small, "all-party," meeting of three Leaders (with Sir George Gater, the Clerk) and was

asked if I would personally undertake the design and carrying-out of an extension building, corresponding in length with the County Hall itself. This I was glad to agree to do. In the preceding 20 years or so, several designs of mine had been exhibited at the RA, and published by your contemporaries and in your own journal. My design for the Extension was duly made. temporaries and in your own journal. My design for the Extension was duly made, and approved by the Council. Later—in the working-drawing stage—a confirmatory opinion was obtained from Sir Giles Scott, with some suggested modifications of detail that were valuable. But the general design was not elevated. was not altered.

was not altered.

I showed it, in due course, to Sir Edwin Lutyens (then P.R.A.), whom I had the good fortune to know, and he asked me to send the drawing to the Academy, which was done. I venture to think that to refer to this as "the Scott design" is unjustified and misleading. The correct attribution of

this as "the Scott design" is unjustified and misleading. The correct attribution of buildings is important.

As to the vandalistic addition now tacked on to the North end of my uncompleted building, I can hardly do better than repeat J. M. Richards's own words—that this "senseless cliff of solid looking stonework" (both "intolerably vulgar" and unrelated to my design) "puts into reverse the policy of enlightened development the LCC has been pursuing" on this site. It is, indeed, impossible to understand why the obvious opportunity for completing the North end of the original (unified) design was not at once accepted. The rooms on all floors of that building are perfectly lighted.

Finally, the London County Council, with its long sustained tradition of good planning.

rinally, the London County Council, with its long sustained tradition of good planning and building, has been put in an entirely false position. It is deplorable that the premier municipal body of this country, with its previously unbroken record of exemplary work, should now be saddled with the entirely unmerited disgrace of this illuiding addition to its buildings. ill-judged addition to its buildings.

FREDERICK R. HIORNS.

The Editors write:

The JOURNAL is very pleased to have this letter from Mr. Frederick Hiorns, one-time architect to the LCC, now aged 82 and living in retirement in Devonshire. His name as well as that of Sir Giles Scott was mentioned in the article in connection with the rear blocks of County Hall, but readers will be interested to know that the current impression that the elevations were largely Sir Giles's work is incorrect. Mr. Hiorns's endorsement of J. M. Richards's criticisms of the extension call for no comment.

DIARY

Brussels Exhibition. Talk by Charles Had-field. At the RSA, John Adam Street, W.C.2. 2.30 p.m.

Form and Pattern in the Biological World. Talk by Professor C. H. Waddington. At the AA, 34, Bedford Square, W.C.1. 8 p.m. MAY 29.

Nicholas Hawksmoor and the Baroque Town Plan. Talk by K. Downes. At the Courtauld Institute, 20, Portman W.1. 5.30 p.m. Square, JUNE 3.

In Planning a new Factory the Plant Engineer and not the Architect should have the Final Authority. Debate between E. C. Stephens for the Plant Engineers and Geoffrey Monro for the Architects, with W. J. Dickie in the Chair. At the RSA. 7 p.m.

'COLLEGE' & 'COUNCIL' FOLDING PARTITION GEAR

One example of pleasant, efficient, all round collaboration between architect, general contractors and two other outstanding firms.

'COLLEGE' HEAVY DUTY FOLDING PARTITION GEAR AND FURNITURE SUPPLIED BY P. C. HENDERSON LTD.

Joinery and fixing of the folding partitions by Samuel Elliott & Sons (Reading) Ltd.

The large assembly hall is divided by two double (sound resistance) End-Folding Partitions $56^\circ 8''$ long x 13' 3'' high. Each end or auxiliary hall is then divided at the centre by another Centre-folding partition 39' 3'' long x 13' 3'' high. In all over 300 feet lineal.

Partitions are flush, finished 21/8, faced with ply, and polished natural veneer. The plates of the rollers, the hinges, and the furniture, are Satin Chrome in colour,



NEW SEDGEHILL COMPREHENSIVE SCHOOL-LEWISHAM (Acknowledgments to Professor Robert H. Matthews, C.B.E., A.R.I.B.A.)

Photographs by permission of the Architects' Department of the L.C.C. Contractors: Rush and Tompkins Ltd.



Catalogue 55 is available upon request. A large range of Full Size Details ensures accurate joinery and fixing.

SLIDING DOOR GEAR

P. C. HENDERSON LIMITED · ROMFORD · ESSEX · ENGLAND

Telephone: INGrebourne 4444, London calls dial IL4-4444





COMPETITIONS

Toronto City Hall

The following eight competitors have been selected to take part in the final stage of the competition for the Toronto City Hall: I. M. Pei & Associates, New York; Frank Mikutowski, Minnesota; William B. Hayward, Michigan; David E. Horne, Toronto; John H. Andrews, Harvard University (Australian); Perkins & Will (A. A. Hoover and J. D. Lothrop), New York; Viljo Rewell, Helsinki; Halldor Gunnlogsson & Jorn Nielsen, Copenhagen, Denmark.

Auschwitz Memorial

The following seven competitors have been selected to take part in the final stage of the competition for a memorial at Auschwitz concentration camp, Poland: Oskar Hansen, Jerzy Jarnuszkiewicz, Julian Palka, Lechoslaw Rósinski, Edmund Kupiecki and Tadeusz Plasota, Warsaw; Julio Lafuente (Spain), Pietro Cascella and Andrea Cascella, Rome; Marcello Mascherini and Roberto Costa, Trieste; Alina Szapocznikow,

Jerzy Chudzik, Roman Cieslewicz and Boleslaw Malnucrowicz, Warsaw; Maurizio Vitale, Giorgio Simoncini, Tommaso Valle and Pericle Fazzini, Rome; Helmut Wolff, Berlin; Andrzej Jan Wroblewski and Andrzej Latos, Warsaw.

Altogether 626 projects were submitted to the Jury (of which Henry Moore is the chairman), and 11 of them were from Great Britain

ABS

Need for More Support

The Annual General Meeting of the Architects' Benevolent Society
May 7. In present The Annual General Meeting of the Architects' Benevolent Society was held on May 7. In presenting the Annual Report, Howard Lobb, the Hon. Secretary, said that although the ABS had been given an increase in grants last year of £700, the grants to beneficiaries were barely adequate and at some future date it would be necessary to the secretary of the secretary and the se sary seriously to consider amount we were able to give.

The first six tenants had moved in, with the The first six tenants had moved in, with the completion of the first stage of the building project at East Horsley, and the estate had been given the name of Frenchlands Hatch. The official opening would be on June 25. The President, Kenneth Cross, said in his speech that the second stage was held up for lock of funds.

held up for lack of funds.

During the last year, said Mr. Lobb, special efforts had been made to make the work of the ABS known to architects throughout the country and he said how grateful they were to the help given by the local representatives. He also wished the meeting to record a vote of thanks to the technical press who were always so co-operative in publicizing the work of the Society. He also wished to thank the members of the Ball Committee for their hard work which had resulted in a profit of £3,400, and Mrs. Montgomery for giving the stall at the Building Exhibition where they were able to sell their Christmas cards,

and for a very generous donation of £630, being the rebate on special tickets issued to architects

Through the unavoidable absence of H. S. Goodhart-Rendel through illness, the financial report was presented by Michael Tapper, who welcomed the increase by about £600 from subscriptions. But he said that from a profession where there were some 20,000 names on the Register of Architects, a subscription list of 2,000 was too small. He asked members present if they could persuade other people in their offices and in their societies to subscribe, referred to the tax rebates available from subscriptions under covenant and recommended this method of payment.

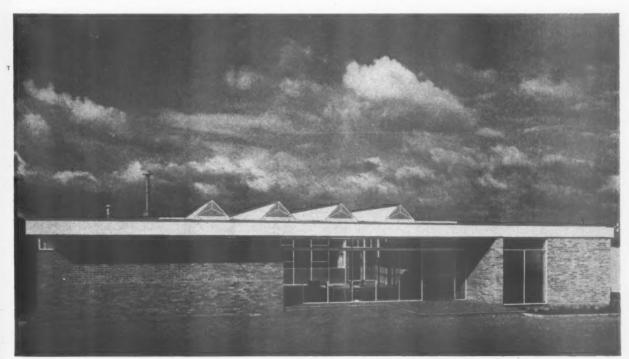
The Report and Balance Sheet were approved. It was also agreed to invite C. J. Epril to become a Vice-President of the society in recognition of the work he had put and was putting into the raising of money for the ABS, and also that Miss Solly, who had been elected an Honorary Associate of the RIBA, should be invited to become a Vice-President of the ABS. Kenneth Cross agreed to become a Vice-President when his term of office as President ended, and Basil Spence, the new President, will be asked to become President of the

TCPA

New Town Growth

A statement by the Town and Country Planning Association on the future of new towns, sent to the Minister of Housing and Local Government, points out that there are two stages in the growth of a new town. The organized movement of people and workplaces to the town should stop at a point well short of the intended maximum population. After this, for some years the natural increase will be at a much higher rate than the average, because of the large number of young families. Thus, a town whose popula-

This factory for the British Diamond Wire Die Co. Ltd., at Poole, Dorset, was designed by Farmer and Dark (architect in charge, E. M. C. Butcher) and has a very neat spaceframe roof construction which will be the subject of a Working Detail in the JOURNAL. The building itself will also be cost-analysed in a later issue.



HOPE'S

Standard Reversible Windows for Multi-storied Dwellings

can be cleaned, glazed or painted from inside the highest block of flats with ease and safety, by reversing the horizontally pivoted casements through 180°.

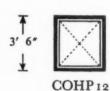
Casements, fitted with a bronze handle, are friction-held in any open position by specially designed watertight pivots.

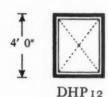
For Ventilation and Safety, a side-arm restricts the opening to a few inches, thereby preventing children from falling out.

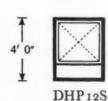
For Cleaning, the side-arm can be released by a responsible person, when the casement will turn inside out, where it is held fast by an automatic catch. Finish: hot-dip galvanized, despatched unpainted.

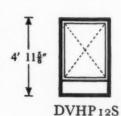
PATENT APPLIED FOR

3' 31" CHP12











immig In th

Co





COHP 13



DHP13



DHP13S



DVHP13S

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners Street, London, W.1

MEMBER OF THE METAL X WINDOW ASSOCIATION

tion is to be 80,000 ought to stop organized

immigration at say 60,000.

In the second stage, provision of homes, jobs, shops, schools, would have to be made for the still-growing population. In addition, for the still-growing population. In addition, during this stage, civic and community buildings, swimming baths, playing fields, assembly halls—too few of which would have been provided in the first stage—should be added. In some towns, there would be a need for much redevelopment of the older parts around which the new town has been

Thus, for a long time (perhaps up to 15 years) co-ordinated development of employment, housing, and public and community services will be required. The TCPA recommends that because of the major job still to be done, new town development corporations should be kept in being during the second stage. The Government having announced its intention to set up a central agency to own the new towns, the Association finds it difficult to see the advantages in unless it would free the administration of the new towns from Treasury control. It also suggests that, as a new town approaches the end of the first stage development, the corporations of new towns near each other might in some cases be aman-gamated in order to retain a highly qualified staff. The unity of freehold ownership in the public interest should be maintained, and surplus revenues on new towns should be used for the benefit of the local communities.

ARCHITECTS TO PAY

Contravention of Byelaws

A firm of architects who failed to get a waiver of byelaws that were infringed by alterations to a house were found liable to pay £126 damages and costs, while succeeding in a counter-claim for £155 fees, in a lawsuit in Westminster County Court in which judgment was given last week. The plaintiffs were Townsends (Builders) Ltd., who sued Cinema News and Property Management (Samuel Harris) for £150 for work and materials supplied. The plaintiffs claimed to be indemnified by the third parties, David A. Wilkie and Partners, the architects, who claimed fees.

Peter Boydell, counsel for the plaintiffs,

said that Samuel Harris, a surveyor and a director of Cinema News and Property Management, employed Townsends to carry out interior alterations at 92, Cheyne Walk, Chelsea. The work started in November, 1952, and finished in March, 1953. The alterations included the conversion of a living room into a bathroom with a water closet; the room already had two doors and by that conversion the byelaws were in-fringed. On another floor there was already a bathroom with a water closet, and a second door was put in: this again infinged the byelaws.

Stanley Townsend, surveyor and estimator employed by the builders, said that in lanuary, 1953, his foreman told him that the Chelsea public health inspector raising a query with regard to the byelaws. He was surprised, and spoke to Mr. Brandsgrove, acting for the firm of David Wilkie and Partners, whom Mr. Harris had plans were sent to the public health inspector at Chelsea by Wilkie, who asked for a waiver. Mr. Townsend said that nobody suggested they should stop the work. During 1953 and 1954 Mr. Harris made complaints about the work done but made complaints about the work done, but it was not until a meeting was arranged be-tween the parties in November, 1955, that Mr. Harris suggested that the byelaws had

ben infringed.

M. A. B. King-Hamilton, for Mr. Harris, suggested to Mr. Townsend that he did not mention anything about the contravention of the byelaws to Mr. Harris until March 3. "I put it to you that Mr. Wilkie and you had elipped up and as you were and you had slipped up, and as you were







First prize in the Commons. Open Spaces and Footpaths Preservation Society competition for footpath signs to be erected on the South Downs in reconstructed stone has been awarded to R. J. Cowell (design on left). The joint second prize winning designs (centre and right) were by R. S. Edmundson and B. H. Loxston.

both anxious to cover up the mistake you did not say anything about the byelaws to Mr. Harris early in January." Mr. Towns-end replied: "The infringement was men-

end replied: The intringement was men-tioned to Mr. Harris in January." Henry Francis Leacock, public health inspector, Chelsea Borough Council, said the trouble would never have arisen if plans had been submitted before the work was started. Where architects were employed was started. Where architects were employed it was the custom for architects to submit plans, and it was usual for the builder to give 24 hours' notice in writing to the public health inspector of his intention to commence work.

Samuel Harris, giving evidence, said he left the whole matter to his architect, Mr. Wilkie, and he was not aware of any breach of the byelaws until May, 1953. "After of the byelaws until May, 1953. "After the breach of the byelaws had been disthe breach of the byelaws had been discovered, Mr. Wilkie said he would try to put the matter right," said Mr. Harris. "He got into touch with the council with a view to getting a waiver, but failed." Cross-examined by Mr. David Gardan for Mr. Wilkie, Mr. Harris denied that Mr. Wilkie mentioned the bye-laws in the early the desired that the control of the discovered the laws of the laws

stages of the discussions. He also denied that knew of the byelaws and was leaving it to Wilkie to get a relaxation. The first time he became aware that anything was wrong was in a letter he received from Mr. Wilkie dated April 7, 1953.

Henry Walker Everett, of Chepstow Place,

Bayswater, a bookkeeper employed by Harris and Gillow, surveyors, cross-exam-ined by David Gardham (for David Wilkie and Partners), could not remember having a conversation with the foreman, or Mr. a conversation with the foreman, or Mr. Brandsgrove, about bye-laws after the work had been started. The first he heard that there was any breach of byelaws was in a letter received from Mr. Leacock on Mrs. 4. "I reported the matter to Mr.

March 4. "I reported the matter to Mr. Harris but I cannot remember what he said." David Archibald Wilkie said he was a past-member of the Council of the Royal Institute of British Architects and a former member of the LCC. He said councils regarded the bye-laws as a guide and applied them according to the class of property. Sometimes the local authorities relaxed the byelaws in special circumstances.

"When Mr. Harris outlined to me the alterations he wanted done, I expressed surprise that he should want to spoil such a beautiful room," said Mr. Wilkie, "But Mr. Harris replied that Mrs. Harris was a very sick woman and he wanted the alterations done to suit her in her declining years. I do not remember what I told Mr. Harris, but there can be no doubt that I must have told him that the proposals were not in accordance with the bye-laws. I told him there must be a ventilated lobby between the bathroom and the bedroom, but he strongly objected to that suggestion, because he said Mrs. Harris must not have another door to go through.

"I communicated with the District Surveyor, but not with the Public Health Inspector in the first instance, and forms

relating to drainage went to Chelsea Town Hall on January 2, 1953. I mentioned to Mr. Harris that the local authority were not satisfied but he would not let me send in any plans showing a lobby separating the bedroom from the bathroom. At no time did Mr. Harris complain because the alterations were not done in accordance with byelaws. M. A. B. King-Hamilton, Q.c., for Property

Management Ltd., asked Mr. Wilkie: "Does your Institute permit you to carry out a contract in contravention of the bye-laws?" Mr. Wilkie replied: "No, but there is no doubt we were all wrong."

Mr. King-Hamilton: "Would it be right

that Townsend, Harris and you conspired to bring about a breach of the byelaws?"

Mr. Wilkie: "Yes—if you like to put it that way. Mr. Harris is a very persuasive man." man

Cross-examined further, Mr. Wilkie said: "This particular byelaw is normally a thing one gets away with." He had told Harris one gets away with." He had told Harris from the start that his proposals did not comply with the byelaws—but that in certain circumstances the byelaws were relaxed, and they might be able to get a relaxation in this particular case. "Mr. Harris, who was the blue-eyed boy in those days, replied 'Of course you will.'"
Peter Boydell (for the builders): "Would

you agree that the greatest single error in this case was your failure to return the drainage application forms promptly to the local authority?"—"I would not put it as high as that."

Replying to his counsel, Mr. Wilkie said: "There was no question of a conspiracy. I was hoping all the way along that I was going to get a waiver"

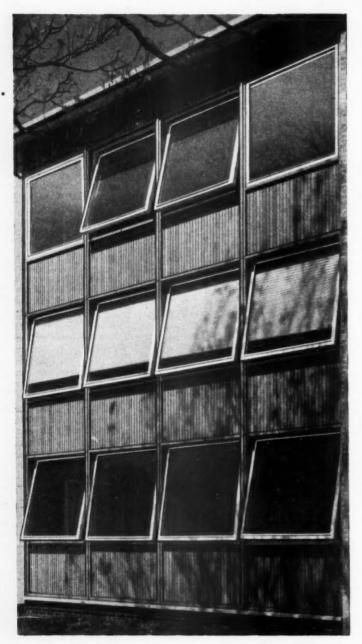
going to get a waiver.

Giving judgment, the Judge, Sir Edgar Dale, said Townsends did the work and had done nothing wrong, so far as their contract with Harris was concerned. think they were perfectly justified in relying upon Wilkie," he said. "I do not think Townsends had any knowledge of the breach of the bye-law until after the alterations to the bathroom had been completed. Townsends had carried out their part of the contract and were entitled to payment. "I have come to the conclusion that Harris is entitled to be indemnified for any loss which has resulted from work authorized by Wilkie in breach of the bye-laws. Wilkie was in full control of the work and I think the trouble arose because he authorized it to be started before the sanitary authorities had given their approval. The trouble resulted from Wilkie not sending in the sanitary notices and plans when should have done."

Judgment was given as follows: £150 for plaintiffs, with costs, against the defendants; judgment for the defence against third party for £126 damages, and costs of third party proceedings; judgment for the third party or his court dist third party on his counter-claim for fees of £155. Third party proceedings by the plaintiffs were dismissed with costs against

the plaintiffs.

CURTAIN WALLING



The attractive timber window and wall unit of this building is non-structural and has been used as an infilling panel. The cost of this type of curtain walling is only twothirds of the steel equivalent.

BUILDING: Bishop Simpson Church of England

Secondary School

ARCHITECTS: Charles Pike and Partners

CONSTRUCTION:

MAIN FRAME: Hardwood

INFILLING PANELS: Softwood vertical boarding with

fibre-glass filled cavity and asbestos

sheet backing

WINDOWS: Double-glazed units of softwood

Before you decide . . .

Please do not hesitate to consult T.D.A. who will gladly supply you with information on the uses of softwoods, hardwoods, plywoods, modern timber design and the names of timber fabricators.

CONSULT TDA

Work Your Passage With Working Details: an A7 Holiday (Abroad) With Pay

Once again we invite students and architects to help us collect material for Working Details from abroad. The terms we offer are outlined below.

(a) for students: cash, plus payment-by-results We are prepared to make a limited number of awards to an aggregate of £400, with a maximum for each award of £40, to students. They will have to supply the cover all their expenses. architects' and, if need be, the manufacturers' working drawings, and to supplement these with a rough pencilled from the principal of their school of architecture or drawing of each detail, annotated in English, and to fill in a questionnaire which we will provide. We have found that it is virtually impossible to be sure about all the finishes and fixings and other minutiae unless one goes through the motions of drawing a detail out and, as it were, of writing a sort of specification in reverse. Students will also have to obtain a photograph from the architect or commission one from a professional photographer at the Journal's expense.

In addition to whatever award we may make, we will pay a further six guineas for any detail which is ultimately published in the JOURNAL. Students who wish to apply for an award must write in to the Editors stating where they are going, the nature of any contacts they may

have in the places they are going to, any particular buildings they wish to detail or architects they wish to visit, and how they propose to surmount the language difficulty. They should also indicate whether they are asking for an award to travel to their destination and back, or to enable them to stay there longer, or whether their proposed visit is dependent on a grant which will

All applications should be accompanied by a letter from one of the principals of their firm, and must reach this office not later than the first post on Monday, June 9. The Editors will base their decisions (which will be final) on the likelihood of useful material being produced.

(b) for architects: payment (larger) by results only We are not offering payments to help architects to go abroad, but we will pay a fee of eight guineas for any detail published, plus expenses incurred in getting photographs, whether published or not. Architects are asked to write in and tell us their plans before they go. The Editors reserve the right to refuse any material

We print below the outline report prepared by Sir Leslie Martin, the chairman, on the conference on Architectural Education held at Oxford from April 11 to 13. On May 6 the RIBA Council accepted the report and approved its six recommendations in principle. The report was referred to the Board of Architectural Education for consideration on May 19, so that the Board could submit as soon as possible recommendations for implementing the broposals, and its proposals on those matters of Institute policy for which the Council is itself responsible. Readers will note that, while the report summarises the arguments put before the conference, it is not a full report in the sense that it does not attribute any arguments to any specific speakers.

RIBA CONFERENCE ON ARCHITECTURAL EDUCATION

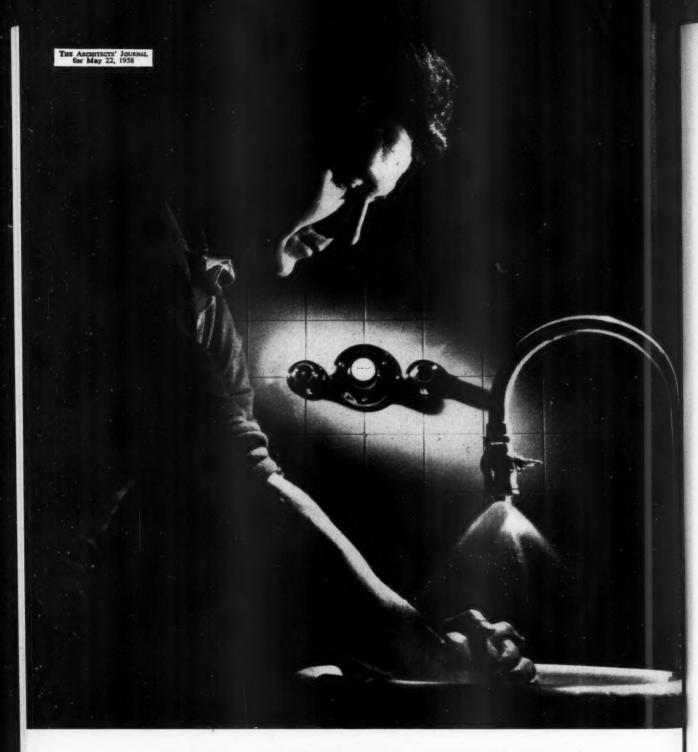
Report by the Chairman, Sir Leslie Martin

Education had its origin in the Council of the RIBA. there existed a general feeling that all the related aspects of the subject should be fully explored. This, it was suggested, might be done at a Conference and it was considered that it would be an advantage to the Council to have any views or ideas which such a conference might produce. Consequently, a recommendation was made in 1956 that a Conference on the Spring of 1957. To allow time for adequate preparation, April, 1958, was finally agreed.

untry

The proposal to hold a Conference on Architectural the Board of Architectural Education. This Committee had several objectives. First, it was considered During discussions of particular reports from the that any conference should draw together as much Board of Architectural Education it became clear that relevant factual information as possible. Second, that the discussion should bring out as much informed opinion as possible from people interested in widely different aspects of Architectural Education. Third, that the discussion should be frank, and, finally, that if possible, some line of action should emerge.

In order to achieve these objectives the Committee decided to circulate preparatory papers giving a Architectural Education should be held not later than general background both of fact and opinion. In order to concentrate the discussion which was bound to be extensive it was felt that invitations to the Con-A Conference Organizing Committee was set up by ference would have to be limited. Invitations were,



Better amenities-fewer complaints

"Well! that job's done. Leonard thermostatic valves fitted throughout. Now the chaps can wash in warm, running water instead of in the little puddles they make in the basins with two taps, and the boss will stop grousing about my overtime".

Save water, fuel and equipment and yet give the men plenty of warm water for a good wash at the end of the day's work. How? By fitting Leonard thermostatic valves which automatically mix hot and cold water to give warm water at the right temperature. They are easily fitted in the factory washrooms on wash troughs, wash fountains and showers, and make an up-to-date installation which saves water and cuts your fuel bill down.

More about this in leaslet No. ZK/2

WALKER, CROSWELLER & CO. LTD., CHELTENHAM

Telephone: CHELTENHAM 56317

therefore, sent to people inside and outside the profession who were known to have views to express. The Conference Committee was aware that in taking this selective action valuable contributions might be excluded. It hoped, however, that it had achieved in its selection an effective cross-section of opinion and interest. The range of subjects to be discussed formed another difficulty. These could certainly not be covered in any single session. But a limited number of people could perhaps spend longer periods together. It was, therefore, decided to hold a weekend conference at Magdalen College, Oxford, on April 11, 12 and 13.

An outline programme was drawn up in order to give some form to the debate. After an introductory session to discuss the programme, the conference was divided into three main sessions. These covered broadly:

- 1. the needs of the profession and the community and the desirable standards;
- 2. the means of education, the routes of entry into the profession and the standards that are being and could be achieved;
- 3. developments of advanced training and research. The Conference was attended by 50 members. They made their contributions as members of the profession with interests in public or private offices of various kinds. They represented industry and local ruthorities, the teaching institutions, building and the associated professions. Several visitors from abroad and from the Commonwealth also attended. Their discussion forms the basis of these notes.

The 1924 Congress

The last Congress on Architectural Education was held in 1924. At that Congress, Professor Budden gave an outline of the system and policy of Architectural Education in this country*. "The real qualifying work," he says, "is to be done by the Schools which can offer a full-time course extending over a period of five years. Into this category come the principal University Schools, one Independent School and a School of Art. Though the pupilage system has practically passed in most of the larger centres of population it still lingers in certain localities. To meet the needs of these districts complementary courses are available." These courses are given in Schools of Art and Technical Colleges and consist of part-time and evening training. Students taking these courses qualify by External Examination.

The 1924 Congress clearly places the emphasis on full-time training in "Recognized Schools." Training elsewhere exists to meet the needs of a dwindling minority. It can be carried out as and when the need arises in Institutions which differ from each other in origin and intention.

This general conception was reiterated in 1943, when the Special Committee on Architectural Education, in referring to the decline of pupilage and apprenticeship said: "In the meantime the RIBA must main-

ain its own system of qualifying examinations for the cenefit of those who, for one reason or another, have not passed through a 'recognized school'."*

What these statements recognize is that two main types of training have been set up—one inside a full-time School leading to exemption, the other outside these schools and designed to assist students to take the RIBA Examinations externally. But what these statements fail to recognize is that although pupilage may decline the numbers of students taking the external examinations may, for various reasons, continue to increase.

In fact, in 1957, 486 students qualified at Recognized Schools and as many as 417 took the RIBA External Examination. In the same year 3,764 students were attending Final and Intermediate Schools and 3,342 were taking courses in Listed and Facility Schools. This latter figure does not include those who prepared themselves for examination independently (for example, by correspondence courses).

Ways of qualifying

Students of Architecture can, in fact, prepare for qualification in a number of different ways and in increasing numbers of institutions. There are now in the United Kingdom 21 Recognized Schools, five Intermediate Schools, nine Listed Schools, 32 Facility Schools and a considerable number of institutions offering courses in Architecture. Numbers of students range from 500 in the larger schools to seven at the other end of the scale. The aims of training and the standards reached in these schools differ widely. So do the standards of entry and the quality of instruction.

But all students taking these widely different courses have one object—to qualify and to become Registered Architects. Numbers have risen sharply since the war. Corporate membership of the RIBA stood at 8,218 in 1938. It had risen to 10,706 in 1948, and it now stands at 18,175. Over half the profession has probably qualified since the war. This increase may continue irregularly but on average at a rate of about 500 a year, which might lead to an ultimate total of something approaching 30,000 architects.

Factual evidence of this kind†, supported by a considerable amount of information on the structure of the profession, formed the background to discussion. This dealt with the development of Architecture as a Public Service and what the public expects of the architect. It touched the changing nature of architectural practice and the technical standards that are now required. These demands and standards were in turn related to the standards of entry and training and to the ultimate and desirable level of performance in the profession.

The ultimate purpose was repeatedly stressed. It was that the profession should attempt to improve its standards of competence at all levels. Any move in this direction must start with the standard of entry. Although the level of entry to a course in a University School can be high, the normal minimum standard

tion which is now being gathered by the RIBA.

Book of Proceedings of the International Congress on Architectural Education, 1924.

Report of the Special Committee on Architectural Education, 1943.
 † The Conference emphasized the importance of the statistical informa-

IN A PERIOD OF 12 WEEKS ...

Marley Concrete Limited, manufactured and erected all the concrete components for this building



Architects and Consulting Engineers: C. W. Glover & Partners, London S.W.1 Main Contractors: Geo. Wimpey & Co. Ltd.

This consultant-designed building is 250ft. wide in five clear spans of 50ft., 211ft. long, 19ft. 6in. high to eaves, and the construction provides for a 2-ton electric overhead travelling crane along each span. Posts are at 30ft. centres, tie trusses at 15ft. centres. Some of the special valley beams at the ends of the building are 28ft. long and weigh almost 4 tons.

Even speedier completion is obtainable with the standard range of Marley Concrete Buildings, available in spans from 15ft. to 5oft. Full particulars will be sent on request.



MARLEY CONCRETE BUILDINGS

MARLEY CONCRETE LIMITED

Peasmarsh, Guildford, Surrey. S. Ockendon, Nr. Romford, Essex. Shurdington, Nr. Cheltenham. Waterloo, Poole, Dorset.

Sth. Ockendon 2201. Shurdington 334/5. Broadstone 626.

elsewhere (five passes at "O" level) is far too low. Plenty of evidence to illustrate the depressing effect of this low standard was forthcoming. In one county, for example, "a student at a grammar school who wishes to become an architect is advised to leave as soon as the five basic subjects at 'O' level have been obtained." The reason given for this is that he would be wasting his time and public money to stay on in the sixth form. Representatives of secondary and higher education pointed out that there are now plenty of competitors for the best boys from Grammar and Public Schools. At present the entry standard for architects is well below that required by other professions, for example, doctors, dentists, pharmacists, veterinary surgeons, metallurgists, not to mention undergraduate entry to a university and the entry standard for the Higher National Diploma in Building.

As one speaker quoted: "The question that arises is how far can a great profession, statutorily responsible for its own education, afford to have an entry standard below that which a good mind may nowadays be expected to attain. It is an issue which the profession may prefer to face sooner than later, for in the next few years (with an increase in the number of 18-yearolds available) it could seize the opportunity to select candidates rather than to accept what material presents itself." The architectural profession will need every artifice to catch anything like a fair share of this increase.

Raise entry standards

62986.

2201.

334/5-

A sharp improvement in the standard of entry is urgent. This, in turn, would rapidly have repercussions throughout training and ultimately throughout the profession. The difference between an "O" level pass at 16 and an "A" level at 18 is not just a difference of educational standard. In the second case, as one speaker said, "the mind is two years older and more developed." "I cannot believe," he said, "that in one case a course of five years is long enough or in the other that five years is required."

Among the conditions that flow from a uniform and higher standard of entry are the following:

First, it makes possible at once a much higher standard of training in all practical and theoretical subjects.

Second, the higher standard and range of study replaces training for a common level by the possibility of developing diversified interests as the student moves through his course. If architects are to hold their own in a developing field of technology this is, in itself, highly important.

Third, the development of a higher standard in undergraduate study leads naturally to the important field of post-graduate study.

Fourth, experience confirms that a good mind absorbs knowledge extremely rapidly. This fact would have repercussions on the length of theoretical training that is necessary and might open the way to new developments in training.

One issue, however, cannot be avoided. The raising of the standard of entry for all students who intend to qualify as architects is likely to lead to a consideration of the desirability of other and complementary forms

of training-not leading to Registration-but equipping the student to take his place as a valuable member of the building team.

Entry level at 16 for technologists

In the discussion on this matter the following points emerged. The fact is that there exists in the profession a demand for highly competent technical assistants. If we are to reach a higher standard of training for the architect and, at the same time, provide competent technologists then we should recognize this distinction in our training. If the entry level for the architect is to be an "A" level at the age of 18, there is a case for an entry level at 16 for those who will train as supporting technologists.

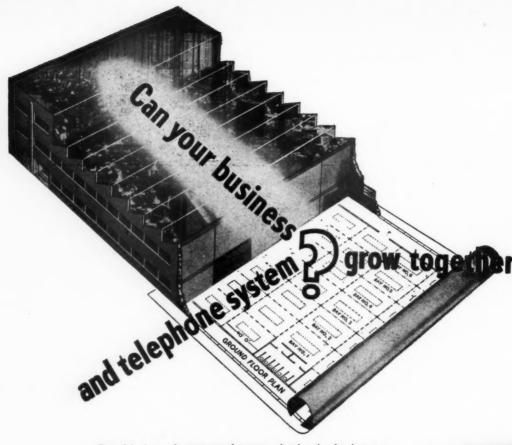
The precise form of this training of the technologists will need careful study. The possibility of basic courses and combined forms of training with other building technicians may be considered. There is, in fact, interesting precedent: speakers from Denmark and Sweden gave comparisons, and reference was made to similar developments in other professions (engineering, for example). Although the "A" level standard of entry for all intending architects was insistently pressed, several speakers mentioned the desirability of providing the opportunity for outstanding students who have started their training as technologists to move into an architect's course providing always that the required standard has been reached.

The Conference followed this discussion by a consideration of the means of education. This consideration centred on the types of school and the main objectives of training. Although the content and the curriculum was discussed, it was obvious that the Conference could not give this detailed consideration.

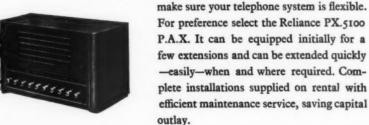
Three types of school were discussed: the Independent School, the University School, and the Local Authority School of various kinds. These were considered from a number of points of view including standards of entry, facilities for training, opportunities for the development of training and post-graduate work, staffing and the development of links with actual practice.

The major schools

For the large Independent and University Schools it was stated that the qualification requirement at entry (judged either by examination standard or combined examination and probationary period) was high. A student taking a degree course, for instance, must reach "A" level in two or more subjects. A student who fails to show promise in the early stages of his course can be excluded. (The probationary period should mean what it says. Consideration of exclusion from a course at Intermediate level is far too late.) Schools of this type are free to develop their courses well beyond the range of the RIBA syllabus, and within the Universities the opportunities for collaboration with other Faculties can lift the content of the course to a very high level. This opportunity for the interchange of ideas between men of different interests and



Speed in inter-departmental communication is the keynote of efficiency. The installation of a Reliance Private Automatic Telephone System soon establishes that atmosphere of orderly activity so essential to smooth business organization. The more your business grows the more telephones you will need. So





We shall be pleased to send you full details.

THE RELIANCE TELEPHONE COMPANY LIMITED

(A Subsidiary of the General Electric Company Limited)

43-47 PARKER STREET, KINGSWAY, LONDON, W.C.2

Telephone: CHAncery 5341 (P.B.X.) Branches throughout the United Kingdom.

INTERNAL TELEPHONES

STAFF LOCATION

MUSIC FOR INDUSTRY

L13079

experience is of the greatest importance to both students and staff. This interchange can occur at undergraduate and post-graduate level. The background of the university influences the school: the School of Architecture, in turn, can influence the understanding of architecture in the university itself and in the minds of undergraduates who may well be its future patrons. A strong case can be made for the development of schools of architecture in universities and for the transfer to universities of schools in other institutions. The characteristic feature of architectural education is that it involves widely different types of knowledge. From the point of view of the university this raises two considerations. If architecture is to take its proper place in the university and if the knowledge which it entails is to be taught at the highest standard, it will be necessary to establish a bridge between Faculties; between the Arts and the Sciences, the Engineering Sciences, Sociology and Economics. Furthermore, the universities will require something more than a study of techniques and parcels of this or that form of knowledge. They will expect and have a right to expect that knowledge will be guided and developed by principles: that is, by theory. "Theory," as one speaker said, "is the body of principles that explains and interrelates all the facts of a subject." Research is the tool by which theory is advanced. Without it, teaching can have no direction and thought no cutting edge.

In spite of the strong arguments for university schools, it was clearly recognized that several institutions outside the universities were capable of developing their training to a university level. Experimental developments in schools of advanced technology would give these institutions the opportunity of advancing those aspects of architectural education which are proper to their framework and of adding to the variety of skills that are required of the architect.

In contrast with the standard that such courses can achieve there is the picture of training in a great many institutions offering tuition in architecture. There are, of course, good "recognized schools" and bad "recognized schools." There are equally good "unrecognized" schools and bad ones. The difference between the good schools in each category is, however, also a difference of opportunity. One is free to develop its courses, the other is restricted by the requirements of training for an external examination, and the whole concept of part time and evening training.

Facility schools

The difficulty in the "unrecognized" facility schools starts at the outset. The facility school can develop in any institution at which a reasonable number of candidates present themselves for part time and evening training. This number is generally recognized as 10 but can be lower. There is an initial difficulty where students already engaged in offices arrive for training without even the necessary "O" level standard. Training takes the form of preparation of testimonies of study: 32 drawings have to be approved by RIBA examiners. If they are not approved the reason is not clear to the student. There is no time to develop courses beyond the level of the RIBA External Examination requirements. Immediately before the

examination the students concentrate exclusively on revision. Although only 40 per cent, may pass, eventually, after repeated attempts, 90 per cent. may finally succeeed. This, said one speaker, "is not education, it is cramming."

The very multiplicity of "unrecognized" schools with different standards militates against the raising of the level of architectural education in these institutions. To this is added the confusion that comes from a lack of any clear indication of what is required by the profession. The raising of the standard of entry to a high level would be a welcome indication that the profession wishes to raise its standards of training for architects. The profession must decide whether anything approaching the desirable standard of architectural education can be achieved by part time and evening tuition*. If not, then the profession should say so.

The freedom from the restrictions of training by testimonies would allow some schools to advance their training to the level required for architects. Where this is impossible or inappropriate a parallel policy of training in building technology would give some institutions the possibility of building up new and useful courses for this purpose. The ultimate object should be that all schools worthy of providing the improved standard of training required by the architect should be recognized schools. The unrecognized school is an anachronism.

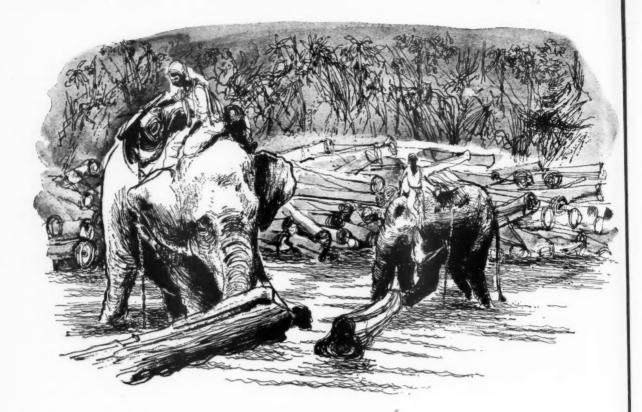
Lead from profession

A clear lead must come from the profession. It must not only give a lead. It must play its part in architectural education. It can do this in several ways:

First, staffing. The difficulties of staffing schools are of two kinds. On the one hand there is the danger that the promising student may find himself promoted to teacher without any really adequate period of practical or research experience or even any understanding of teaching. On the other hand, schools have also relied on young people who are starting practice and who may use a teaching salary as a basic income. These people may bring enthusiasm: but when their practice is established they go. What is necessary is an arrangement which brings into teaching architects with creative ability and extensive practical or research experience so that they may add to the fund of knowledge that is available in a school. This can be assisted by the link with post graduate research. But it also requires a readiness on the part of able practitioners and specialists to take their place from time to time as teachers. It is simply no good for the profession to complain about the standard of education when those who have become skilled practitioners feel unable to collaborate.

Second. If the student's complete course of training is to have any realism this means that at some stage he must be brought into the closest possible touch with all the requirements of practical building. The best way to achieve this is for him to be associated with a building project and the profession must recognize this as a necessary step in architectural education. This can be done in two ways. It can be achieved by

^{*} The "sandwich" course which is developing in some schools is deliberately excluded and is discussed later in paragraph 31.



-won from the forest by huge endeavour

In the mountainous forests of Burma and Siam, men work with elephants to extract the prized Tectona grandis, and send it on the long, slow journey down-river to the world's markets. Machines are useless; the terrain is too wild, the trees marked for felling often too far apart. Creeks run dry between monsoons, and elephants are strong but slow. The journey lasts for years.

Such arduous effort is justified only for a wood of quite exceptional quality, and teak is such a

wood. Teak can be used for every kind of joinery. And, though it costs more than most other woods, teak is always an economy in the long run. It lasts for centuries and needs no painting; its shrinkage is less than that of any other commercial timber; and it is highly resistant to moisture, fluctuating temperatures, acids, insect attacks and fungi.

And, because we stock teak in an enormous number of sizes, we can help you to cut down on waste and save still more. Ask us for samples and prices.



RAVENSDALE WHARF · STAMFORD HILL · LONDON N.16 · TEL: STAMFORD HILL 6611

the development of the "live project" as a school subject. This has already been pioneered in one school and is in operation in others.*

The other possible arrangement is through the operation of combined or "sandwich" courses. These are being developed in several schools and are proposed in others. The "sandwich" course is not part-time training. (One conclusion on which the Conference was emphatic was that the part-time course must go.) The sandwich course which is proposed in schools which carry out full-time training is a means of breaking down the barrier between training and practice. This is done by alternating periods of training in a school with periods of training in an office. The collaboration in training by the office itself is essential to the success of any scheme of this kind.

Advanced training

In its consideration of the question of advanced training the Conference had before it a paper† which stated in its preface "Knowledge is the raw material for design." "It is not a substitute for architectural imagination: but it is necessary for the effective exercise of imagination and skill in design. Inadequate knowledge handicaps and trammels the architect, limits the achievements of even the most creative and depresses the general level of design."

The advancement of knowledge is not merely an ornament to a profession-it is its duty. This is the means by which the competence of the profession as a whole can be advanced. It is essential to improvement in both teaching and practice that a limited number of people should at some time devote themselves to advanced post-graduate study and research. Work of this kind is steadily increasing in volume. In addition to the main centres where it has developed, the BRS, the Ministry of Education and the Nuffield Foundation, important developments are now taking place in Universities in which this type of work may become progressively more established. The pioneering work of these centres of research has indicated the range of study that is required. In addition to the study of the space and functional requirements of building types, studies of building design in relation to daylighting and town planning, the prefabrication and industrialization of building and the special problems of tropical building are now being followed up.‡

Work of this kind can be conducted as pure research but is more likely to take the form of investigations which involve inter-related studies: for example, the inter-relation between architecture and social needs, the physics of environment, etc. Studies at present being conducted in this country already involve extensive contact with other disciplines: on the side of the means of production architects are at work with structural engineers, mechanical engineers, production engineers, management and time study experts: on the side of the needs of buildings they co-operate with clients, sociologists, psychologists, physicists, physiologists.

The very nature of this pattern of co-operation makes post-graduate work in architecture a suitable subject for development in the universities where, so far, the main developments of post-graduate study have largely concentrated on Historical Research which, indeed, they have carried out with distinction.

The evolution of post-graduate studies of this kind is a natural extension of higher standards of training within the schools. These studies are the means by which students of diversified interests extend their own minds and the boundaries of knowledge. They also build up the specialized knowledge which is always replacing and reinforcing the generalized knowledge of practice.

By the development of post-graduate study, the profession can provide itself with the higher technical ability and knowledge that it requires. Above all, it can advance and re-invogorate its teaching.

These discussions clearly led to a series of important considerations. Many of the matters discussed are issues which can only be effectively studied over a period of time but there were certain issues which the Conference considered to be urgent, critical and essential safeguards to the future of Architectural Education. These matters arose from many aspects of the discussion and eventually crystallized into the following recommendations for action:

Recommendations

- 1. The Conference unanimously agreed that the present minimum standard of entry into training (five passes at "O" level) is far too low and urged that this level should be raised to a minimum of two passes at "A" level.
- 2. The Conference agreed that courses based on Testimonies of Study and the RIBA External Examinations are restricting to the development of a full training for the architect and that these courses should be progressively abolished.
- 3. Ultimately, all Schools capable of providing the high standard of training envisaged for the architect should be "recognized" and situated in Universities or Institutions where courses of comparable standard can be conducted.
- 4. Courses followed by students intending to qualify as architects should be either full-time or, on an experimental basis, combined or sandwich courses in which periods of training in a school alternate with periods of training in an office.
- 5. It may be that these raised standards of education for the architect will make desirable other forms of training not leading to an architectural qualification, but which will provide an opportunity for transfer if the necessary educational standard is obtained.
- 6. The Conference regards post-graduate work as an essential part of architectural education. It endorses the policy of developing post-graduate courses which will enlarge the range of specialized knowledge, and will advance the standards of teaching and practice.

^{*} Birmingham School of Architecture; R.W.A. School of Architecture, Bristol; University of Cambridge School of Architecture.

[†] Deeper Knowledge: Better Design. R. Llewelyn Davies.

The whole question of the architect's contribution to Town Planning needs special consideration.

REINFORCED CONCRETE FACTORY

Competition results and assessor's report

We are now able to publish the assessor's report and the prize-winning designs in The Cement Marketing Company's competition for the design of a Reinforced Concrete Factory Building for a theoretical site.

The prize winners were:

First prize (£1,000): Joseph Mendleson and John Henry Charles Lamb, of Joseph Mendleson and Partners (London), who worked in association with Z. L. J. Woloszczuk and R. B. Wilcox, of

Chamberlain and Partner consulting engineers.

Second prize (£500): E. H. Eames (Tewin Wood, Herts), P. G. Frome, P. Drew, P. H. Saunders and J. D. Morris, who worked in association with Z. L. J. Woloszczuk and A. B. Szulc, of Chamberlain and Partners, consulting engineer.

Third prize (£250): Cyril John Bromley, Paul Sutherland Buckhurst, Gary Valentine Hansen, John Richard Peverley (London

students). Consulting engineer, K. Szmidt.

The assessor was Edward D. Mills, assisted by Ove Arup and Partners, consulting engineers, and Leslie W. Clark, quantity surveyor. The following is their report:

Detailed comments on the premiated schemes together with general comments on the competition are set out in this report.

Design Number 78, which was awarded First Premium, is an excellent all-round scheme, the authors having considered the conditions of the competition with great care and produced an attractive and workable solution. The detailed planning is excellent and the arrangement of units has produced a simple, practical circulation and an effective architectural massing. The separation of various functions has been exceptionally well considered and, in particular, the external circulation of the various forms of traffic is highly commended.

Great care has been taken in considering future extensions, which can be added in any order without spoiling the appearance of the factory or reducing the amenities. The extensions would have no adverse effect on the architectural character of the scheme. The authors have made a careful study of the day lighting of the manufacturing area and have achieved an excellent standard of illumination throughout the manufacturing

space.

The division between the manufacturing area and administration has been well defined, and care has been taken to arrange for easily accessible services, which run through a central duct.

The drawings are clearly and neatly presented, with a comprehensive report and excellent structural details.

The elevations of the building are simple, but effective. Considerable use has been made of exposed aggregate precast concrete slabs, with small areas of patterned blocks to create interest.

The general layout and landscaping has been very well considered. The buildings sit

comfortably on the site and would be an attractive addition to any industrial area.

Structure: The chief item of interest in the structure is the 84 ft. Warren girder spanning the main manufacturing area. This consists of triangular precast units which are tied together by prestressing and lifted into position in pairs of girders to form monitors. Although 84 ft. has been shown in the design, the unit construction would enable the span to be varied over wide limits.

The detailing is elegant and practical. It is very free from projections and other protuberances, which so often mar the appearance of precast structures.

The remaining structures are straightforward and unpretentious, in fact, all the structures are characterized by simplicity of design.

Estimate of cost: The overall estimate of cost is quite realistic and it would appear that the authors have given more than the average care and consideration to this aspect

of the competition.

The manufacturing and storage areas together work out at an average of 2s. 3d. per foot cube or 50s. per foot super, and the administrative offices, canteen, lavatories, first aid centre and boiler house, etc., at an average of 4s. per foot cube or 74s. 2d. per foot super, including services but excluding equipment and outside works.

The breakdown of cost under the various headings also indicates that considerable thought has been applied to the apportionment of the total cost and the provisions for outside works are consistent with the requirements under the conditions of the competition.

In Design Number 44, which was awarded Second Premium, the general planning has been well considered, and the detailed planning of the individual units shows consider-

able promise. The disposition of the main units of the factory result in a pleasing massing of the elevations, and circulation, both inside and outside the building, has been carefully studied.

The single entry and exit from the secondary road would need further thought, as this might lead to congestion at this point. The planning of the car parking, cycle parking and garage accommodation appears to be a little congested and no parking arrangements are planned adjacent to the office entrance for casual visitors. This could, however, be simply remedied by replacing the grassed area with a small private car park. The detailed planning of the canteen, office entrance and office block is exceptionally good and would produce pleasant and workable areas. The relationship of lavatory and cloakroom accommodation to the manufacturing zone is well arranged, although the structural system employed results in two rows of columns in a comparatively narrow area, which might prove to be a limiting

The general layout is good and the provision for extensions has been carefully planned, together with the landscaping, which would be attractive and would not be interfered with when factory extension became necessary.

The expansion of the offices has been catered for by the addition of a further floor, and whilst this is possible, it would be both expensive and inconvenient. An improvement would have been the construction in the first stage of half the two-storey office block, which would at the same time have given a more interesting character to this elevation of the building.

The elevations generally are simple and attractive, but consideration of certain details would produce marked improvements. For example, the roof lights to the manufacturing area could have been stopped before they reached the external edges of the building, giving a firmer line to the factory roof and eliminating awkward glazing areas on the East and West elevations.

Considerable use has been made of textured precast concrete panels, while the scheme generally relies upon precast units for its structure.

Structure: The structure calls for little comment. By adopting a small span the structural problem has been virtually eliminated, and has been solved by the simple use of precast units. The detailing is clean and the structure is unobtrusive.

Estimate of cost: In design Number 44, the total floor area and cubic content of the buildings are somewhat lower than in the average design submitted and taking this into account, together with the considerably smaller span in the manufacturing and storage areas, it is logical that the overall estimate of cost should be less than that for the winning design.

The individual rate prices, however, are reasonably comparable. The manufacturing and storage areas together work out at an average of 2s. 4d. per foot cube or 51s. 7d. per foot super, and the administrative

Continued on page 786

blocks have a main structure of long-span prestressed

Σ V 1 . U H. 1. P Z Z 0 S 1 1 Q Z Z H d 1 S 0 × 8 Z 5 S H 0 5 RIZE-WINNIN Reinforced concrete factory competition: d E FIRS

e main

g massn, both

s been

as this

parking to be a arrange-

fice en-

eing the or park. office tionally

d work

ory and anufac-

ugh the

narrow

limiting

he pro-

carefully

scaping

uld not

xtension catered

or, and

mprove

ction in

y office

me have

to this

ple and certain vements.

e manustopped

edges of to the

awkward st eleva-

of tex-

ast units

or little span the

virtually

by the tailing is sive.

r 44, the t of the n in the king this siderably ing and e overall han that

ever, are facturing

ut at an

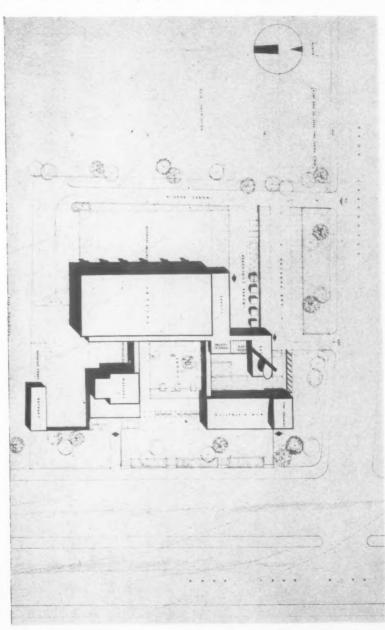
51s. 7d.

nistrative

2

0000 CMC

West elevation



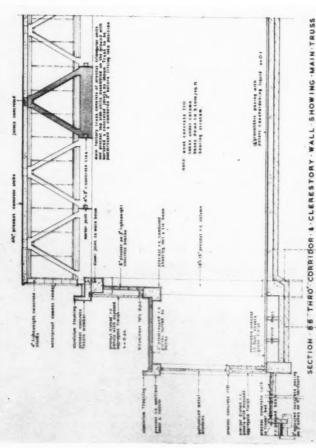
and at the bottom by ties at 6-ft. centres. No unit weighs span the 18 ft. between adjacent space-frames and in turn the design shown, but may be used for spans of from 60 ft. to 90 ft.) are lifted on to the T-shaped columns. The other Woloszczuk and R. B. Wilcox, of Chamberlain and Partner, consulting engineers. The main factory block canteen blocks are each linked to it by corridors and the factory structure has been chosen to give uninterrupted floor space; this consists of concrete space-frame girders stressed on site, being joined at the top by precast planks more than 7 cwt., and since the space-frames occupy the depth of the monitor lights, the stat parts of the roof are kept to the minimum clearance level. Precast purlins fourth (main road) side by a covered way. A long-span This design was submitted in association with Z. L. is sited north-south to give the aspects required by special monitor roof-lights. The administration of precast triangular units assembled and support 6-ft. long channel-reinforced woodwool After assembly the space-frames (which span 84. three buildings form a large courtyard, closed made

Site plan

Reinforced concrete factory competition:

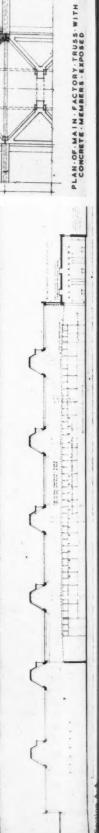
L A M B continued н. С. J. AND MENDLESON JOSEPH BY DESIGN FIRST PRIZE-WINNING

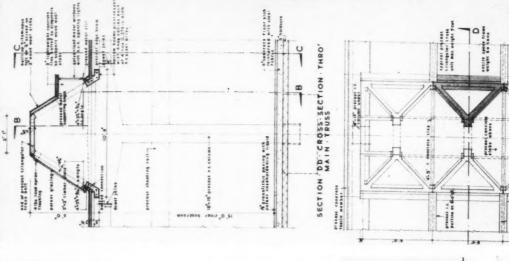
beams at 3-ft. 6-in. centres with woodwool slabs spanning between. External cladding on all blocks is infill in the other blocks, and is concrete blocks, plastered. Artificial ceilings are painted white for good reflection. Heating in the factory mainly of precast dished interlocking panels with coloured exposed aggregate; this runs across the face of the factory structure but is used as panel backed up by a skin of lightweight tubes on continuous trunking, at below purlin level. The woodwool block is by overhead unit heaters. lighting in the factory block is provided by cold cathode fluorescent 12-ft. centres both ways, and at 2 ft.

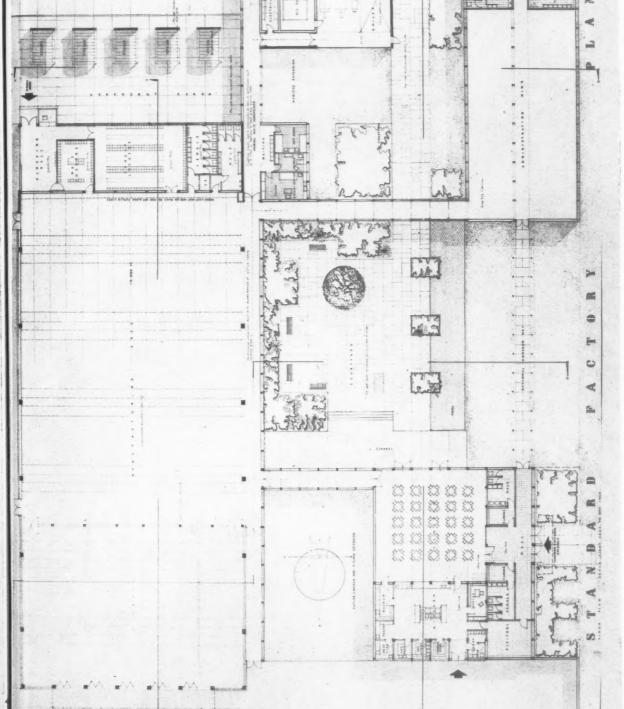




South elevation

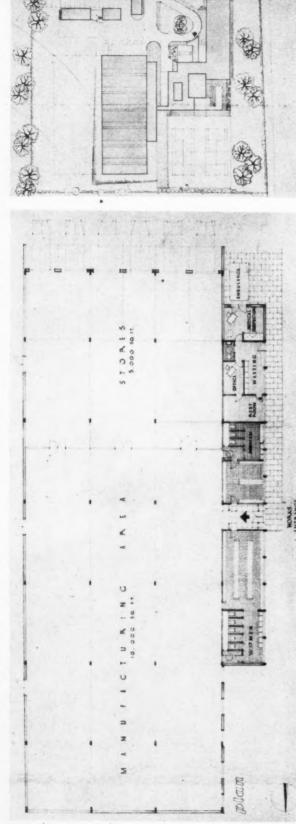






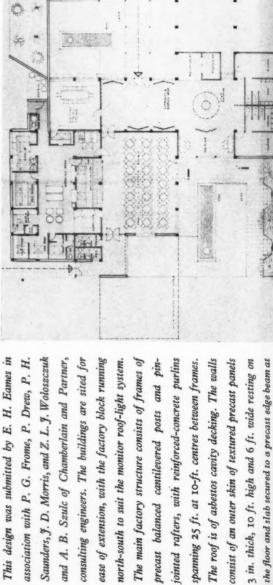
Ground floor plan

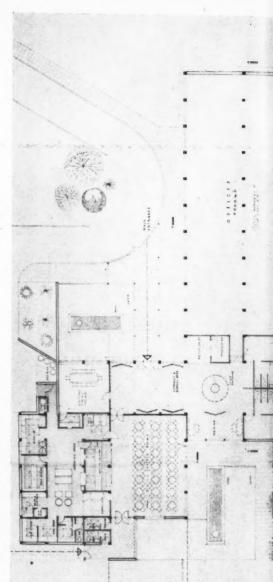
E. H. EAMES BY DESIGN PRIZE-WINNING SECOND Reinforced concrete factory competition:

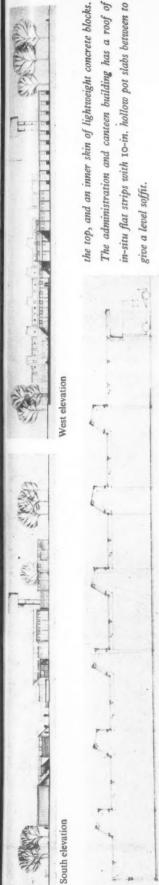


Ground floor plans: above, factory; below, offices and canteen

Site plan

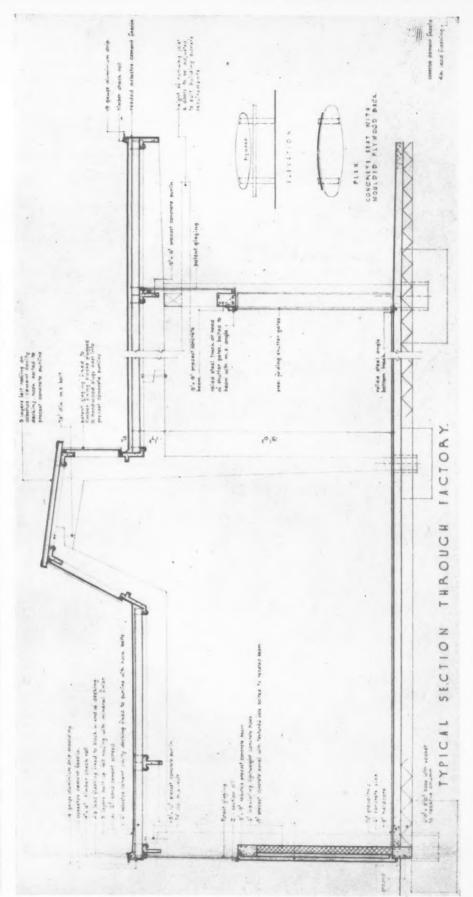






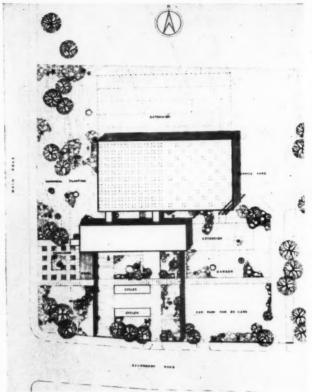
the floor and slab secured to a precast edge beam at 3 in. thick, 10 ft. high and 6 ft. wide resting on

The administration and canteen building has a roof of in-situ flat strips with 10-in. hollow pot slabs between to



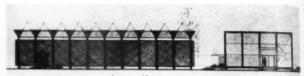
Reinforced concrete factory competition:

BY



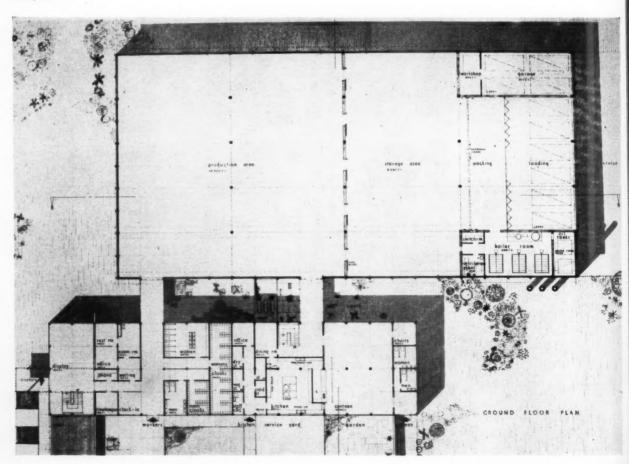
Site plan

This design was prepared in association with K. Szmidt, consulting engineer. The boiler house and garages are included in the main factory block, all other accommodation being gathered together in a two-storey subsidiary block; the two buildings are quite different in character. The factory block runs east-west, but its siting is not conditioned by the daylighting system adopted, which is of pyramidal metal-framed roof-lights 5 ft. square. Precast space-

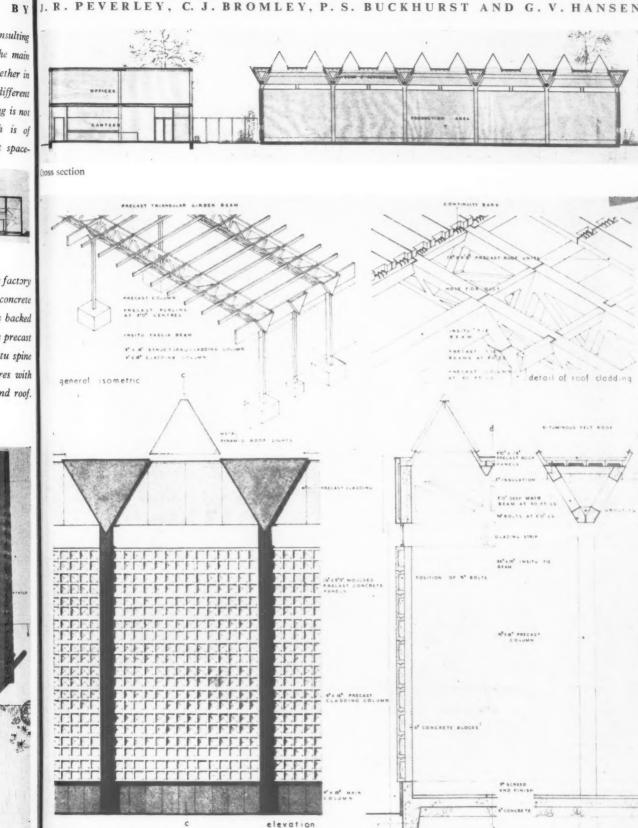


West elevation

frame girders spanning 50 ft. at 20-ft. centres form the main factory structure; these carry precast purlins at 5-ft. centres with concrete plank units as decking. Walls are profiled precast panels backed up by lightweight concrete blocks. The subsidiary block has precast columns at 10-ft. centres, precast edge beams and an in-situ spine beam; small precast secondary beams at 2-ft. 6-in. centres with woodwool slabs and in-situ topping form the first floor and roof. Cladding to this block is of clear and obscured glass.



J. R. PEVERLEY, C. J. BROMLEY, P. S. BUCKHURST AND G. V. HANSEN



plan

section c-c

nsulting he main ether in lifferent g is not

i is of space-

factory concrete backed precast

res with nd roof.

Reinforced concrete factory competition: assessor's report continued from page 778

offices, canteen, lavatories, first aid centre and boiler house, etc., at an average of 4s. 6d. per foot cube or 67s. 7d. per foot super.

Here, too, the authors appear to have given more than average care and consideration to the apportionment of the total cost, with reasonable provisions for the outside works.

Design Number 63, awarded Third Premium, is unquestionably the most elegant architectural solution submitted, and both in design and presentation has great sensitivity of approach.

Unfortunately, in spite of an extremely compact plan and very well considered and attractive layout, a number of practical faults are obvious, which prevented it from being more highly placed. In particular, the planning of the cloakroom/canteen block would require further consideration, particularly in view of the condition laid down that all departments of the factory should be capable of 100 per cent. expansion. This area could not be expanded without complete duplication, which would obviously be uneconomic in the case of the canteen and kitchen. These areas are, in any case, regarded as small, even for the first stage development. Although direct communication is provided between the manufacturing area and the cloakrooms and canteen, the relationship of workshop and lavatories should be reconsidered, in order to provide direct access from the cloakroom or to the canteen. Lavatory and cloakroom accommodation generally appears to be rather cramped, and would be difficult to operate with a large number of people.

The general arrangement of the factory is logical, and expansion could be made without any serious interference with the first-stage building.

External circulation for both pedestrian and wheeled traffic has been very well considered, and the landscaping carefully studied, to give a simple, but very effective, arrangement of planting and gardens.

The system adopted for day-lighting the factory area is both expensive and doubtful in sufficiency. The scattered arrangement of individual roof lights would tend to produce eye-strain and would need serious reconsideration.

The elevations of the buildings are notable for their extreme elegance. Great care has been devoted to the use of textured surface and patterned precast concrete slabs, particularly on the manufacturing block, which combine with the simple elegance of the exposed frame of the administration block. The general grouping and massing of the units has been extremely well handled, and the building would make a noteworthy addition to any industrial development.

Structure: The structure of the main manufacturing area is unnecessarily complicated, and there is no justification for the space-frame main girders. They are not practical for use as pipe ducts, as it would be almost impossible to get the pipes in. The roofing of precast units is heavy, and the insulation

on the underside instead of on top.

The structure of the administration block is also unnecessarily complicated, and it would appear that a cast in-situ floor would have met the problem much more simply. Estimate of cost: Whilst the overall estimate of cost for design Number 63 is fairly comparable with those for the designs placed First and Second, the apportionment under the various headings is quite unrealistic. For example, the total cost of foundations up to ground level is given at approximately £12,000, the superstructure cost at approximately £26,000 and the cost of heating and hot water at approximately £25,000. This means that the superstructure costs are unrealistically low and the heating costs are extremely high. With regard to the heating costs, a reasonable sum is included under each section of the buildings and, in addition, a very large sum is included under boiler house, sufficient to cover the cost of the complete installation. Overall, however, the manufacturing and storage areas together work out at an average of 1s. 6½d. per foot cube or 41s. 9d. per foot super, and the administrative offices, canteen, lavatories, first aid centre and boiler house, etc., at an average of 4s. 8d. per foot cube or 67s. 10d. per foot super. The rather low price per foot cube for the manufacturing and storage areas is due to the large cubic capacity in relation to the floor area. Although insufficient care and attention appears to have been given to the detailed estimate, having regard to the architectural and other merits of the design and to the fairly reasonable overall estimate of cost, it was considered that design Number 63 was worthy of the Third Award.

General comments

It is obvious from the number of entries submitted for this competition (96) that it has created a considerable amount of interest, and it has produced an outstanding winning design, with a number of interesting schemes which have been awarded premiums or have been given careful consideration by the Assessors.

The competition has obviously encouraged collaboration between architect and engineer in tackling the important problem of factory design, using reinforced concrete as the main structural material, and examination of the schemes submitted reveals many interesting ideas which could be adopted for normal practice. On the other hand, it has also revealed a considerable misunderstanding of the nature and proper use of reinforced concrete in industrial building, particularly where precast units have been designed, in many cases, as concrete versions of a steel structure.

Too little attention has been paid, in a number of instances, to the important question of day-lighting, and the equally important problem of waterproofing roof structures, particularly those of peculiar shape and construction. Vulnerable points, such as the junction of roof lights and the adjoining roof area, have seldom been studied adequately, and the usual deficiencies of

weatherings and suitable treatment at the junction of one material with another suggest insufficient study of the many practical problems that arise in this type of building. Many competitors have failed to understand the need for a clear and simple circulation system in a factory, and the proper segregation of the various occupants.

The problem of expansion has not always been seriously considered, and in some cases the growth of the factory, as envisaged in the conditions, would completely ruin the architectural composition. On this particular point, the winning scheme has solved the problem brilliantly.

Structure: The impression gained from the various structural schemes submitted is that designers are creating their own difficulties. Too many schemes are full of "gadgetry." It is a fact that no system in the building trade lasts very long unless it is very simple. It is also surprising that very few shell roofs have been proposed. They may be out of fashion, but the fact remains that the curved, thin shell is the classic solution to roofing in reinforced concrete. It may not be cheaper than a well-designed precast framework with lightweight sheeting for the roofing material, but it is certainly cheaper than the many schemes submitted with precast and other forms of solid roofing. It is a very difficult technical problem to join precast units together to produce a neat appearance and a strong joint. The use of a combination of precast units and in-situ ones has not been exploited sufficiently and is well worth consideration.

The general standard of structural solution is disappointing, and it is felt that designers should concentrate on making structures simple, rather than spectacular.

Estimates: Having regard to the fact that the Conditions of the competition laid down, within small limits, the overall floor area of the building, the main features of the various schemes submitted were the wide variations in the estimates of cost, varying by more than 100 per cent. between the lowest and the highest, and the considerable optimism of a number of competitors in the matter of estimating, or alternatively insufficient consideration given to the question of cost of the particular type of construction proposed. Many of the structural schemes submitted would be extremely costly, this fact not being reflected in the estimates con-

Of the many schemes initially selected on architectural and design merit for further detailed examination, the variation in estimating was not so noticeable, although the general tendency was to be on the low side. Considerable inaccuracies in some estimates would appear to suggest that this aspect of the competition was treated too lightly or that insufficient time was alloted to this part of the work. In one case, a comparison of the floor areas and cubic capacity of parts of the administrative section suggested storey heights of up to 100 ft., although, naturally, this was not indicated on the drawings. In the submission of any scheme, it should be borne in mind that the estimate of cost is quite important and that this should at least give a reasonably reliable indication of

the probable cost of the work.

t at the her sugpractical building derstand reulation segrega-

t always me cases isaged in ruin the particular elved the

from the distriction the distriction the distriction adaptery." building y simple, needl roofs ee out of ee out of ee curved, roofing in a cheaper work with material, the many and other y difficult units to-toe and a nation of not been orth conorth con-

designers structures

fact that aid down, or area of the various variations by more owest and optimism the matter nsufficient on of cost ection proemes subthates con-

elected on or further on in estihough the elow side. e estimates aspect of lightly or o this part parison of y of parts sted storey , naturally, awings.

should at dication of



working detail

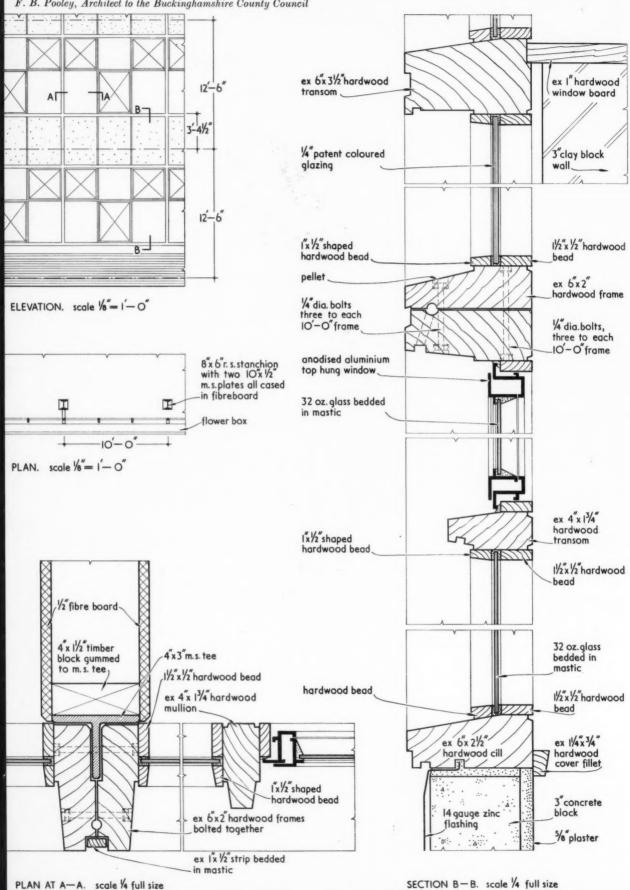
CURTAIN WALL: COLLEGE AT SLOUGH, BUCKS

F. B. Pooley, Architect to the Buckinghamshire County Council



Architect-designed prefabricated timber curtain walls for multi-storey buildings are still comparatively uncommon. The frames in this case are of storey height and 10 ft. wide, the joints between frames being masked by the channel sinking incised in main multions, heads and sills. The deep zinc flashing at the foot shields the brickwork from water falling off the curtain. As will be seen from the drawing, this design requires $\mathbf u$ back-up wall to meet the fire protection requirement.

F. B. Pooley, Architect to the Buckinghamshire County Council



working detail

KIOSK: STATION IN LONDON, S.W.1
Robert Maguire and Peter Whiteley, architects



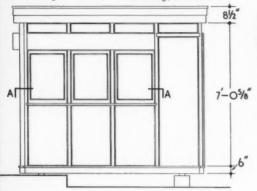
This kiosk affords a good example of economical joinery detailing. Economy has been achieved mainly by cutting down rebated joints to a minimum. Note the use of the projecting fascia to serve as a back to high level shelving.

2"x 1" softwood plate.

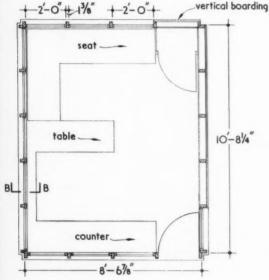
NAMAN BARBARAN MEREKAK BERAK BARBARAN BARBAR BARBARAN BARBAR BARBAR BARBAR BARBAR BARBAR BARBAR BARBAR BARBAR B

KIOSK: STATION IN LONDON, S.W.1

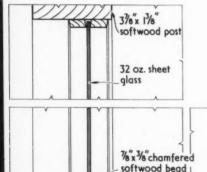
Robert Maguire and Peter Whiteley, architects



ELEVATION. scale $\frac{1}{4} = 1 - 0$



PLAN. scale 14"= 1'- 0"

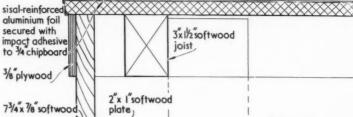


3% x 1% softwood corner posts tongued together

13/4"x 17/6" softwood frames to vertical sliding sashes

> 15/8 flushfaced door 13/4" x 1/2" softwood stop

3-0"



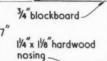
3/8" hardboard >

65/8"



32 oz. sheet glass





½"Douglas fir plywood panel

1/4"x 1/6" hardwood

nosing -

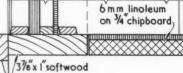


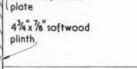


3.2 mm linoleum

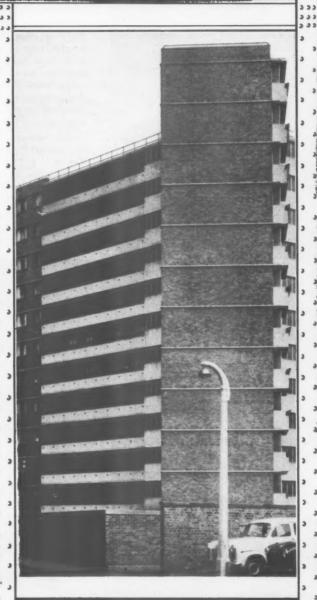
on I" blockboard







If you're thinking of building flats



PERMANITE

LIMITED

LONDON Tel: ADVance 4477 BIRMINGHAM

MANCHESTER

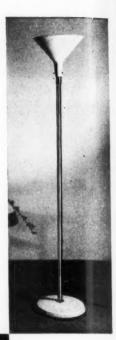


Illustrated are some samples from the comprehensive range of Mondolite lighting fittings, which supplement the wide variety found in the Versalite, Ultralux, Tubalux and Harlequin ranges.

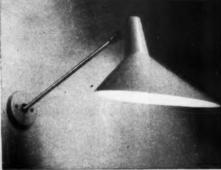
Many of these fittings, in pendant, bracket, table lamp and floor standard form, have been designed with new materials and the emphasis is on colour, simplicity of design, and interchangeability of units to provide a variety of alternative assemblies.

The majority of these fittings have already been approved by the Council of Industrial Design for "Design Review", and an attractive display of the units has been added to the Lighting Centre at Knightsbridge and the Liverpool showroom.

An illustrated folder of these fittings Ref. No. TYL/II is available on request.



Fittings...





TROUGHTON & YOUNG

TROUGHTON & YOUNG (Lighting) LTD

143 Knightsbridge, London, S.W.1 'Phone Kensington: 3444

Also at 46, Rodney Street, Liverpool, 1.

RFW.12

Announcements

PROFESSIONAL

C. A. Broadway, A.R.I.C.S., has taken into partnership John Malyan, A.R.I.B.A. The title of the firm will be Broadway & Malyan, Architects and Surveyors, of 34, Baker Street. Weybridge.

Healing & Overbury, chartered architects and surveyors, have now opened a branch office at 7, Portland Street, Southampton (telephone: Southampton 24429). Trade literature and catalogues may be sent to this address, as well as to Cheltenham.

Moir & Bateman (incorporating S. Butterworth & Duncan) F./A.R.I.B.A., A.M.T.P.I. of Prudential Building, Rochdale, have opened a branch office at Pembroke, South Wales, and their address will be Barnard House. Pembroke.

Howard. Souster & Fairbairn, A.R.I.B.A., announce that the title of the practice will now be Howard, Fairbairn & Partners. This alteration is because I. Avann, F. C. Newton, and F. W. Wilson have been appointed junior partners.

Reginald Pianca, A.R.I.B.A., has resumed his appointment as consulting architect to the Government of the Union of Burma. The address is c/o National Housing, Town and Country Development Board, Box 254. Rangoon, Burma.

O'Brien, Morris & McCullough, B/B.ARCH., have opened a branch office at 9, Ormerod Road, Stoke Bishop, Bristol 9, and all trade literature and catalogues would be wel-

TRADE

J. M. Robb, Manager of the Overseas Division, has been appointed General Manager Expandite (Australia) (Pty.) Limited and will be taking up the post in Australia about July. J. H. Humphries has been appointed Area Manager Scotland and A. W. Moignard, Assistant Area Manager for South East England.

Alec Plummer of Luton, a past-President of the Electrical Contractors Association (Incorp.) has been elected the Chairman of the National Inspection Council for Electrical Installation Contracting.

J. A. Hewetson & Co. Ltd., flooring specialists, of Marfleet, Hull, have appointed J. E. Mitchell as their representative in Lancashire and Cheshire.

Venetian Vogue Ltd., whose main factory is in Slough, have just opened a branch factory in Jordan Street, Glasgow, for the manufacture of their Sunway Vevo Blinds.

The Coal Utilization Council's new information centre at 39, Park Street, Bristol, which takes the place of their old one at Broad Quay, was opened on March 31 by the CUC President, J. Stanleigh Turner, under the chairmanship of T. L. Silvey, South West regional committee chairman. The opening ceremony was attended by members of the regional committee and the regional joint service committees and the guests included civic heads, local government officers, architects and builders, who afterwards were invited to inspect the premises.

J. O. de M. Hopper, Overseas Representative, Expandite Limited, Chase Road, N.W.10, left on May 12 to visit distributors in Italy and Yugoslavia. A scheme, by which companies and firms engaged in the manufacture of building materials and components may, subject to certain conditions, join the National Council of Building Material Producers as affiliated members, was adopted by the Council at a special meeting held on March 25.

J. A. Crabtree & Co. Ltd. are holding an exhibition of their products at the Grand Hotel, Charing Cross, Glasgow, until May 24.

TDA has produced a wall chart dealing with various aspects of moisture in timber. Copies of the chart can be obtained from the Timber Development Association, 21. College Hill, E.C.4.

Midland Electric Manufacturing Co. Ltd., have appointed P. Dale to their London Sales Force.

British Plimber Limited announce that T. B. Dodson left the Company's service at the end of April, and that C. K. McConnan succeeded him as Sales Manager from May 1.

John Hampton Pawley, a Director of George Cohen Sons & Co. Ltd., died on April 15 at the age of 78.

The Pitch Fibre Pipe Association of Great Britain have retained the services of F. L. Barrow, M.SC., A.M.I.C.E., M.I.Struct.E., F.R.S.H., M.I.P.H.E., as Consultant. The appointment has been made in view of the growing importance of pitch fibre pipes for drainage and other purposes. Mr. Barrow will act as advisor to the Association on technical matters relating to the use of these pipes.

John Dale Acoustics Division have reduced their prices of Sanacoustic aluminium nonrusting trays by 10 per cent.

IBSTOCK FACING BRICKS ...

ADD THE CHARM OF COLOUR TO EVERY BUILDING

For the County Borough of Derby.

Borough Architect: Thos. W. East, F.R.I.B.A.

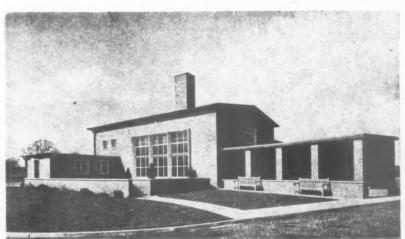
Bricks: 25in. Buff Multi-Rustics.

I G

Contractors: Messrs. Ford & Weston Ltd.
Osmaston Road, Derby.

This modern building is faced with Buff Multi-Rustic facing bricks. Supplied in a number of attractive colours, lbstock facing bricks are being specified by Architects everywhere.

Hand-made bricks are booked a long way ahead — but most machine-made bricks, especially in 25 in. size, are readily available.



MARKEATON CREMATORIUM, DERBY

Ibstock

FACING BRICKS

IBSTOCK BRICK & TILE COMPANY LIMITED, Ibstock near Leicester.

London: L.M.R. Goods Depot, Wright's Lane, Kensington, W.8.

Telephone: Ibstock 591 (3 lines). Telephone: Western 1281 (2 Lines) Carson Bros. (Production) Ltd., wooden office furniture manufacturers are to move from their present Shoreditch factory to new premises in Honywood Road, Basildon, Essex. The move is expected to take place this summer.

The Mitchell Construction Company, the Limited Company within the Mitchell Group of companies, D. D. Morrell has been appointed Managing Director.

F. Hills & Sons Ltd. have appointed two further distributors for Duramel, the Plastic-Faced Plywood: Ian Mac. Dougall Ltd., 20, Hillneuk Drive, Bearsden, Dumbartonshire (telephone: Bearsden 4283) and Dalmarnock Timber & Plywood Co, Ltd., Glasgow Road, Rutherglen (telephone: Rutherglen 2463).

Leaderflush Doors Ltd. have appointed Messrs. J. M. & J. Bartlett Ltd. Lombard House, Warwick Street, Newcastle-on-Tyne 2, to act as their distributors for Durham, Northumberland and the North Riding of **Vorkshire**

An open invitation has been extended by Mm. Pennel & Flipo of Roubaix, France, to all architects and other interested persons visiting the Brussels Exhibition this year. This invitation is to visit the Pennel & Flipo This invitation is to visit the Pennel & Flipo factory at Roubaix in order to see the manufacture of their Bulgomme-Silence foam rubber based floor covering which has, during the last year, been available in Great Britain for the first time. Anyone wishing to take advantage of this invitation is asked to contact the United Kingdom Commercial Manager for Pennel & Flipo; J. B. Arnull of 13, Montpelier Road, Ealing, W.5 (telephone: Perivale 6550). William Townson & Sons Limited, of Bolton have become members of The Natural Asphalte Mine-owners & Manufacturers Council.

British Resin Products Ltd. announce that the high density polyethylene which they are marketing on behalf of British Hydro-carbon Chemicals Ltd. will in future be sold under the trade mark Rigidex.

Correction

The roof of the stand of Fibreglass Limited at the Factory Equipment Exhibition was covered in Snapdek Insulated Roof Decking, made by Snapdek, Limited, and not in Northern Aluminium's Snaprib as stated in our issue of May 1.

TALL BUILDINGS

One approved, one not

The Minister of Housing and Local Govern-The Minister of Housing and Local Government has approved an outline application by Raglan Squire and Partners for a 33-storey hotel at Lancaster Gate, London. He has rejected an application by New City Properties (architects, Lewis Solomon and Kaye) for a 35-storey hotel in Park Lane, but has indicated that he would approve a tall hotel on this site if the plot ratio were reduced. In each case the plot ratio were reduced. In each case the plot ratio prescribed for the site in the Development Plan was 2 to 1. The ratio proposed for the hotel at Lancaster Gate was 3.7 to 1, that for Park Lane 8 to 1.

for Park Lane 8 to 1.

In his letter notifying the Lancaster Gate decision the Minister says.

"The Minister is satisfied that there is a need for more hotel accommodation in London, that this site is suitable for the erection of a large hotel, and that an hotel

of the size proposed need not give rise to any insuperable traffic problems. He sees no objection in principle to the erection of a high building on this site provided it is well proportoned. He does not think that the case for preserving the symmetry of the Victorian architectural composition of Lancaster Gate, already broken by redevelop-ment, is sufficiently strong to justify with-holding permission on your client's outline application.

application."

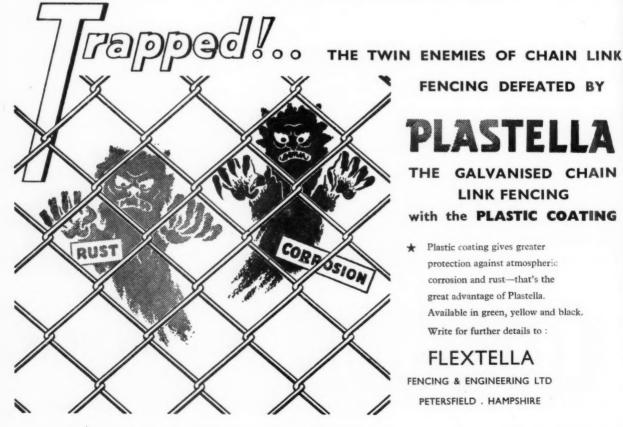
Accordingly, the Minister has granted permission subject to the plot ratio not exceeding 3.75 to 1, to the provision of a garage for 250 cars, and to approval of detailed design.

The Minister's letter on the Park Lane

The Minister's letter on the Park Lane application says that he is satisfied that the site in question is suitable for an hotel, and that the existence of a large hotel on the site need not give rise to insuperable traffic problems. In his view, however, the proposal now before him would constitute a serious over-building of the site, and he thinks that it would be very detrimental to reighbouries. it would be very detrimental to neighbouring properties. Even if the site were larger, he would be doubtful about the effect which such a building would have on Hyde Park; and while recognising that high buildings must be allowed and that the neighbourhood of the Park is particularly suitable for of the Park is particularly suitable for hotels which in the modern world may need to be built high, he would hope that a design would be produced which, while still being economic, would present a less massive appearance viewed from the Park. He adds that he would be prepared to accept a substantial increase over the normal plot ratio of 2:1 for the construction of an hotel on this site, and that he is prepared to agree in

principle to a high building here.

The letter adds that the applicants may wish to discuss alternative proposals with officers of the London County Council, the Board of Trade, and the Ministry.



FENCING DEFEATED BY

PLASTELLA

GALVANISED CHAIN LINK FENCING with the PLASTIC COATING

Plastic coating gives greater protection against atmospheric corrosion and rust-that's the great advantage of Plastella. Available in green, yellow and black. Write for further details to:

FLEXTELLA

FENCING & ENGINEERING LTD PETERSFIELD . HAMPSHIRE

yes, you-

rise to sees no n of a is well at the of the

f Lan-

outline ed per-

xceedgarage etailed

Lane at the last traffic opposal serious as that ouring ter. he which Park; ildines

rhood e for y need that a le still

assive a adds a subt ratio tel on tree in

may with il, the

INK

Y

IN

NG

must have a use for PLYMAX

Sixty times as rigid as sheet metal of the same weight and having all the advantages of a metal surface—stands up to rough usage—hygienic—fire resistant. That's PLYMAX, the metal-faced plywood, made only by Venesta Limited. Light and easy to handle, PLYMAX can be sawn or drilled simply with ordinary tools.

PLYMAX has metal on one or both faces: it is available faced with aluminium or galvanised steel (other metals if required): it is manufactured in 40 standard sizes and in various thicknesses.

Here are some examples of how PLYMAX is used:
Conveyor Equipment, Storage Bins, Casings, Machine Covers.
Bench Tops, Flush Doors, W.C. Cubicles, Shower Partitions.

PLYMAX

the Venesta Metal-faced Plywood



Write for samples and literature

VENESTA LIMITED

Plywood Division, Vintry House, Queen Street Place, London, E.C.4. Tel: CENtral 3040.

TA10700



"Yes-ONE aerial can provide

perfect reception for more than a hundred T.V.

sets—I saw a school with the same system installed the other day—I can't think why every architect doesn't specify it—it's so much more clean cut and efficient."

Details of our service on Multi-point T.V. installation systems will gladly be supplied if you will 'phone or write to us.



ANTIFERENCE INSTALLATIONS LTD

19, Dunraven Street, Park Lane, London, W.1.

Telephone: GROsvenor 1061/2.

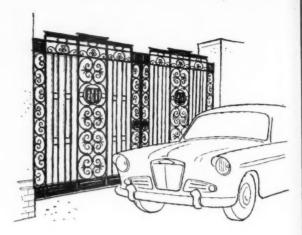
Midlands: -39 Holland Street, Sutton Coldfield. Phone 5354

North: -- 81 Medlock Street, Liverpool 4. Phone Bootle 1737

DHB/6689

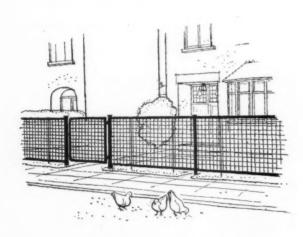
If you're asked for gates like this





or this

fencing like this



or this

.... or any other sort of railing for balustrades, bridges or balconies, either to standard designs or to suit special requirements, the job will be done to perfection by the craftsmen of

BAYLISS, JONES & BAYLISS LIMITED



Makers of fencing and gates for over a century

HEAD OFFICE: VICTORIA WORKS · WOLVERHAMPTON · TELEPHONE: WOLVERHAMPTON 20441 LONDON OFFICE: 139 CANNON STREET · LONDON · E.C.4 · TELEPHONE: MANSION HOUSE 8524



DEMOLITION & CONSTRUCTION

COMPANY LIMITED

Building,
Civil Engineering
and Public Works
Contractors

Branch Offices:

NEWCASTLE CARDIFF LIVERPOOL

The annual post free subscription rate payable in advance is £3.3.0, sterling; in U.S.A. and Canada \$10.50; elsewhere abroad £3.10.0.

Please

send

me

the

ARCHITECTURAL

REVIEW

until

further

notice

address

H

H

H

A

Ħ

CH

I

TEC

TU

N

AL

H

EV

W

9-13 Queen Anne's Gate, Westminster, S.W.1.

S.W.1. Whitehall 0611

The Architectural Review's new standard binding, with alternate years bound in black and white, and alternate volumes initialled A and R, makes easier the identification of individual volumes, and their proper replacement on the shelf. The binding is buckram, and the price of binding per volume is 25s. Copies to be bound should be addressed, with the appropriate index, direct to the Architectural Press warehouse, Abbey House, 8, Victoria Street, London, 8.W.1.



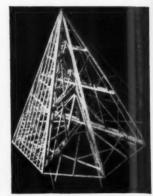
MAY



Ove Arup's house in Highgate, by the Danish architect Erhard Lorenz.



Street side clutter, such as will be imposed on any architect's ideal vision if it is built in a town; from Kenneth Browne's article Streetscape with Funiture, the street in this case being replanned Notting Hill Gate.



Great Gothic space-frame; Quentin Hughes' magnificent model to illustrate his article on roof of York Chapter House.

JUNE



Town centre of Vallingby, above, and the market place of Harlow New Town, right; contrasts in animation from Hubs Without Wheels, a survey of two important new town centres.

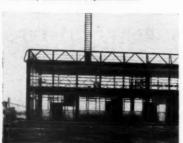


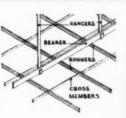
Building development in Victoria Street near the Abbey, touch off again the future of Westminster Precinct. This enfilade of the spires of Westminster highlights Gordon Cullen's proposals in Westminster Revisited.



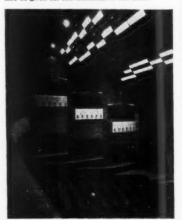
JULY

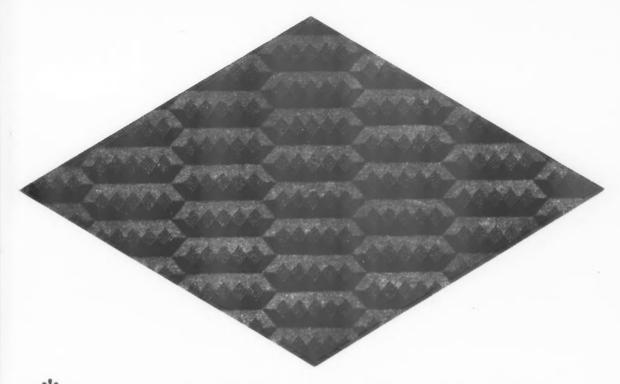
Right: overhead nomenclature; the designations of the parts of suspended ceilings, from the first of a number of articles on this new entrant in the field of prefabricated building elements. Below: Glass Cages at Gatwick; some of the new buildings at Gatwick airport are almost brutalistically solid, others are transparent glass and steel structures, all will be fully described in a special feature.





Below: Theatre in Coventry; a view across the auditorium of the newly-opened Belgrade Theatre. The interior of the National Film Theatre will also be given the full treatment in this issue.





*1958 Design Centre Award goes to a

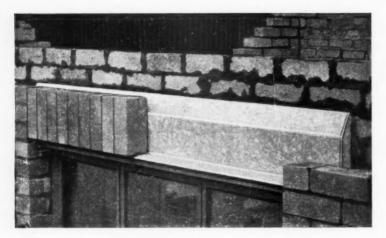
TOMKINSONS

architect designed carpet



For the second year running, a Design Centre award goes to a Tomkinsons Carpet. The winning pattern is "Linked Design 13/ZA2" by Ward & Austin—
"A first class contract carpet well suited to public places" said the Judges. "Its distinguished architectural design, comprising interesting counterchanges of simple geometrical shapes, is never overpowering from whatever angle it is seen". This is one of a range of four related patterns by the same designer and is available in any two colour combinations for a minimum quantity of 100 yards.

TOMKINSONS · LIMITED · P.O. BOX 11 · KIDDERMINSTER · WORCS



THE DORMAN LONG LINTEL

Combined Angle Arch Support & Dampcourse Tray

IN HOT-DIP GALVANIZED STEEL, FOR USE AT THE HEADS OF OPENINGS IN EXTERNAL CAVITY WALLS

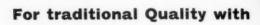
Comes on site to required length ready to fix. Large saving in site labour costs. Cannot be damaged in cavity cleaning. The Dorman Long Lintel has only to be placed into position over the head of the opening and without delay the work carries on.

Prices and details from:

DORMAN LONG (Steel) LTD., Sheet Dept., Middlesbrough or from district offices at London, Birmingham, Manchester, Newcastle, Belfast, Glasgow.

DORMAN LONG





PRE-FABRICATED BUILDINGS BY

BLACKNELL



CONTEMPORARY

Design . .

★ Standard or special designs. ★ Working drawings and specifications prepared. ★ Low capital costs. ★ Unrivalled standards of service. ★ Unique industrial experience.

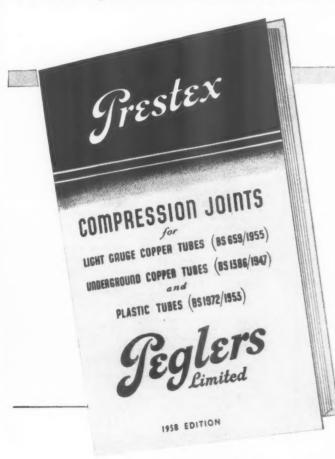
H. & H. BLACKNELL LTD. Dept NF/6, Farnborough, Hants (Tel: 2071)





What's in it for you?

HIGH QUALITY...LOW PRICES...WIDE RANGE



Have you got your copy of Peglers' New 1958 Prestex Catalogue? If so, just thumb through its pages and cast an approving eye over the newly extended, superbly finished range of quality 'Prestex' fittings ... Then, look at the remarkably low prices!

How do Peglers manage to keep prices so competitive . . . and quality so high? Well-it's really a matter of progressive large-scale production methods . . . attention to detail ... and skilled craftsmanship that springs from long experience. These all come naturally to Peglers, who have over half a century of experience behind them in producing plumbing fittings of the finest quality.

SPECIFY 'PRESTEX' FITTINGS BY NAME

Look out for them at the Building Centre, Store St., Bloomsbury, London. Also on display at Bristol, Birmingham and Glasgow Centres.

SEND NOW FOR YOUR COPY OF THE NEW PRESTEX CATALOGUE

To: Peglers Limited, Prestex House, Marshalsea Road, London S.E.1

Please send a free copy of your new Prestex Catalogue to:

BY A BATE

ADDRESS



71)

PEGLERS LIMITED . BELMONT WORKS . DONCASTER

ALSO AT BIRMINGHAM AND LONDON





Even at the drawing board stage it is advisable to call in Constructors and obtain the benefit of their long and practical experience. Constructors steel partitioning is planned to ensure ease of installation and afterwards can be re-arranged with the minimum of inconvenience to suit changing requirements. Concealed wiring facilities, switches and built-in heating units are amongst the exclusive Constructors features that go far to achieve perfection in the designing of a well planned installation.

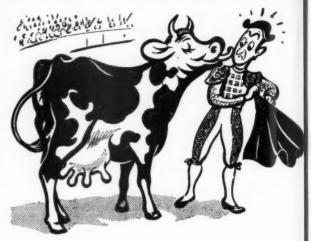
GOOD PLANNERS ALWAYS CONSULT

CONSTRUCTORS

FOR FACTORY EQUIPMENT & OFFICE FURNITURE

CONSTRUCTORS GROUP. Dept. Z, Tyburn Road Erdington, Birmingham, 24. Telephone: ERDington 1616 London Office: 98 Park Lane, W.1. Telephone MAYfair 3074 Leeds Office: 25 Merrion Street. Telephone: Leeds 28017

This is no BULL





Bonds anything to anything

TRIED TESTED PROYED AND SPECIFIED BY LEADING ARCHITECTS CONTRACTORS AND GOVERNMENT AUTHORITIES.

NOW IN ITS FIFTH YEAR ON THE MARKET

Ample supplies of Uni-bond are available. It grips and holds two surface together—for good. There are a 1,001 uses for Uni-bond on building altes, in factories, offices, stores and around the home . . . inside and out

- Ready for use. No mixing-no heating.
- * Dries clear. No mess-no wastel
- * Waterproof, weatherproof, mouldproof.
- * Resists petrol and oil—is non-brittle.
- * Does not crack, craze or deteriorate.
- ★ Backed by money-back GUARANTEE.

For the PLASTERER—Bonding Plaster. Will bond plaster without keying to existing smooth plaster, cement, painted surfaces, timber, painted anaglypta walls and ceilings, hardboard, glazed tiled surfaces—and each to one another. In fact any surface.

For the CEMENT WORKER, CONCRETOR. BRICKLAYER, CEMENT BONDINGS. Will bond cement mixes to Plaster, Asbestos, Old Cement, Timber, Steel, Hardboard, Chipboard, Bricks, Quarry Tiles, Glazed Tiles, Slates, Flags, in fact any surface. A masterplece for screeding.

For the FLOORING TRADE, TILE or BLOCK LAYER or IN-SITU LAYER. Unsurpassed for the fixing of all wood blocks, lino or rubber, plastic tiles, and making plastic levelling screeds that will lay from paper thickness up to 2in. over any base. For fixing without keying all types of composition floorings, such as Magnesite etc. A lasting floor seal against dusting surface.

For the CARPENTER and JOINER—Bonding Timber. For joinery use, it being possible to make grain end bonds that are almost impossible to break. Fixing pelmets, shelves, pads, etc.

The GLAZE TILER. A Uni-Bond cement/sand slurry wii. fix a tile for keeps, no bedding required. Tile over any level surface plaster, hardboard, painted surfaces, existing glazed tiles.

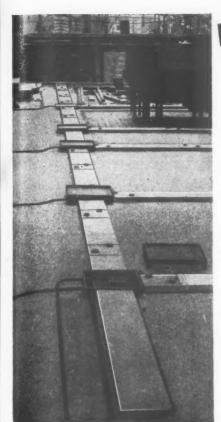
For PAINTER and DECORATOR—MAKING PLASTIC PAINT, FILLERS, PRIMERS. For priming timber, asbestos and all surfaces with suction. Sealing off efflorescence on plaster and brickwork. Making a permanent stopping. Making a Plastic oaint from cheap distempers.

FOR WORKING
INSTRUCTIONS
Cut out this slip—attach
to your trade-card or
letter-head—and post to
us today.

Write for address of your nearest stockis

THE LIQUITILE SUPPLY CO Dept. E, 48 HIGH ST., CAMBERLEY, SURRE

Telephone: CAMberley 2263



ECTS

surfaces building and out

hout

ER, stos, face. SITU o or will ixing esite

most fix a rface

INT.

l all

and

stockis

Y CO

SURRE

THE IMPROVED

Greenwood-Airvac underfloor Conduit System

 provides for all cables to be accommodated in one duct with adequate screening between telephone and power cables.

Bankers Trust C . (New York) Bucklersbury Hruse, E.C.4. Architect: O. Campbell-Jone, Esq. FRIBA, FRICS, London, E.C.4. Main Contractors: Humphreys Ltd., London, S.W.I. Electrical Contractors: Thorpe & Thorpe Ltd., London, E.C.4.



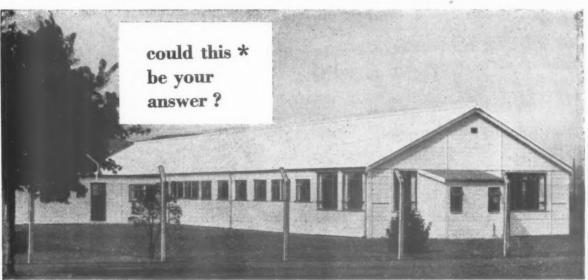


Greenwood-Airvac

conduit systems

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LIMITED

Patentees, Designers and Manufacturers of Ventilating Equipment and Electrical Conduit Systems BEACON HOUSE, KINGSWAY, LONDON, W.C.2. CHAncery 8135 (4 lines). 'Airvac' London



Photograph by courtesy of Hunting-Clan Air Transport Ltd., London Airport.

* For one reason or another, tomorrow may find you face to face with a complex building problem demanding an urgent solution . . . or funds will not permit the expense of a traditional brick structure.

Whichever it is, YOU are expected to find a speedy, efficient, yet simple answer.

Just such an answer is provided by THORNS TIMBER-FRAMED BUILDINGS. Prefabricated in BASIC units they combine economy with ease of erection—and are easily adaptable to your own design.

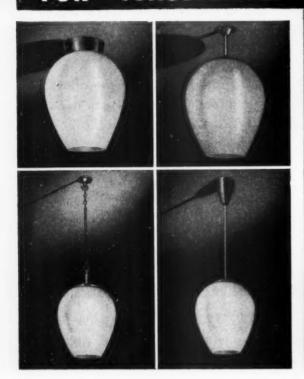
The photograph shows an Office Building, 152ft. by 30ft. at London Airport.

Basic widths available — 12', 15', 18', 20', 24', 25', 30'.

get of quotation from THORNS

. THORN & SONS LTD. (Dept. 188) BRAMPTON ROAD, BEXLEYHEATH, KENT

FOR TUNGSTEN LIGHTING FITTINGS



HAILWOOD "BRANDY GLASS"
RANGE COMBINES MODERN
DESIGN WITH EFFICIENCY

Send for details

So

Niko

The

HAILWOOD & ACKROYD

LIMITED

18 LOWNDES ST., LONDON, S.W.I Telephone: Sloane 0471-2 73 ROBERTSON ST., GLASGOW, C.2 Telephone: Central 3662 BEACON WORKS, MORLEY, YORKS. Telephone: Morley 571-2

"Hailware"

a place in the sun!

Education

plus

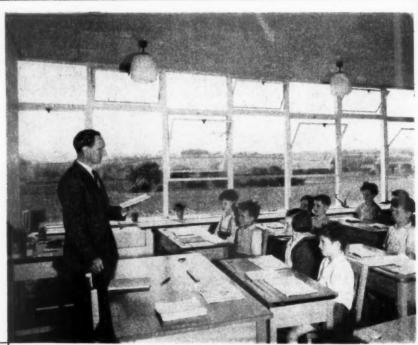
daylight

sunshine

and

vitality





"Melloclad" Curtain Walling specified by the City Architect, J. L. Womersley, Esq. F.R.I.B.A., M.T.P.I., for the Bradway County Primary School, Sheffield.

MELLOWES & CO. LTD.
SHEFFIELD LONDON OLDHAM

Member of the Metal Window Association.



Nikolaus Pevsner The Englishness of English Art

D

D

THE 1955 REITH LECTURES, re-written to almost twice their original length, and fully annotated. With 130 illustrations in line and half-tone. 8% in. by 5% in. 208 pages. Price 16s. net. postage 1s. 2d.

HE ARCHITECTURAL PRESS, 9-13 QUEEN ANNE'S GATE, 8 WI.



LIGHT SEA GREEN and OLIVE GREEN STONE

Is eminently suitable for interior or exterior use where great durability and unique appearance are of paramount importance. Architects may specify its use for Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces, etc. Ask for these Technical Pamphlets:

- I. Floorings.
- 2. Facings.
- 3. Coping.
- 4. Cills.
 5. Riven Face Slabs.

SPECIFICATION. The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries Ltd., Coniston, The Lake District, Lancs., in random sizes about 18in. to 9in. long, proportionate and random widths, laid to a 3in. lap in regularly diminishing courses from eaves to ridge. Each slate to be securely fixed by two stout copper nails and wide slates are to be used on the hips and verges.

Alternatives: Seconds, Thirds, Special Peggies Olive Green and Mixed Shades.

Ridging: "Bromoor" purpose-made of crushed and moulded slate from the same veins is recommended.

Technical information, samples and prices on request.

BROUGHTON MOOR GREEN SLATE QUARRIES Code

CONISTON, THE LAKE DISTRICT, LANCASHIRE.

Telephone, Coniston 225/6

SYLGLAS Specified for Architectonic Shapes

The Crystalline Hall was designed by Messrs. Howard V. Lobb & Partners, F/F.R.I.B.A., Coordinating Architects for the United Kingdom section in the Brussels International Exhibition 1958, and was constructed by Messrs. Richard Costain Ltd., in association with Entreprises Blaton Aubert.

The Crystalline Hall, or Hall of Tradition, is part of the Government Pavilion. Its three crystal shaped spires are constructed of timber panels 6" thick, using a stressed skin plywood construction and are completely weatherproofed with Sylglas glazing and sealing tape.

More and more Architects specify Sylglas wherever they need a weather proof seal.

SYLGLAS TAPE CORD AND MASTIC

guaranteed for 20 years against hardening or cracking.



The Sylglas Company, 81 Knight's Hill, West Norwood, S.E.27.

Telephone: GIPsy Hill 4247 (5 lines)

Unusual restoration problem at

Harrow School

THE Old Speech Room at Harrow School is being entirely resurfaced with new bricks specially kilned to give superior weathering qualities, while retaining the original colour and texture. This highly skilled brick-skinning operation was made necessary by excessive spalling of the old brick and stonework.

Walker-Symondson welcome difficult problems

If you are concerned with the structure, decoration or furnishing of any type of building, we can assist you with your problems. The following list of our departments and associate companies shows the comprehensiveness of our service.

DEPARTMENTS

General Building

Building Restoration Decoration Maintenance

Woodwork

Traditional or contemporary woodwork is made in our joiners' shop to our own or clients' designs. It entails, among other things, cutting back the old brickwork to a depth of $4\frac{1}{2}$ inches and executing the jointing to a carefully maintained specification

These measures were advised by the surveyors, Messrs. Weatherall, Green and Smith, under whose direction the work is being carried out.

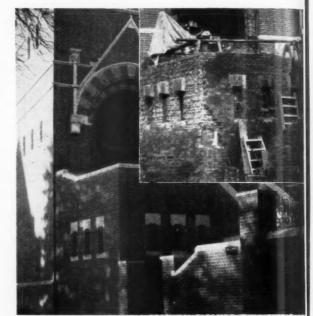
ASSOCIATE COMPANIES

J. W. WALKER & SONS LTD., Organ Builders to Her Majesty Queen Elizabeth II

B.O.W.S. & BARTLETT, LTD., Consulting Ecclesiologists

NEW STONE RESTORATION LIMITED

Stone Restoration Specialists



Part of the completed building. The inset photograph shows: right, the ruinous condition of the old brickwork and left, work cut back ready for resurfacing.

BUILDING CONTRACTORS · WOODWORK SPECIALISTS

Braintree Road, Ruislip, Middx. Ruislip 7261 (5 lines)

WALKER — OYMONDSON

Chmourite

Chmourite

Chmourite

Chan-Line

For Extra Protection!

Use "ARMOURITE" for better class building where that "little extra" is required. "ARMOURITE" has all the damp resisting qualities of our wellknown "Aqualite" dampcourse plus the addition of an impenetrable barrier of sheet lead.

Samples and Descriptive Literature from
VILLIAM BRIGGS & SONS LIMITED DUNDEE

BRANCHES THROUGHOUT THE COUNTRY

FORESIGHT

Introducing . . .

THE "XL-TALBOT"

THE MODERN ALL-NIGHT BURNING COMBINATION GRATE



For

Cooking

Hot Water

and

Space

Heating

The above illustration shows this model with cast iron Architrave, Curb and Hearthplate which shows a distinct saving on the traditional mantel surround. This model can also be supplied with Tiled doors, Hearth Tiles and all Tiled Surround.

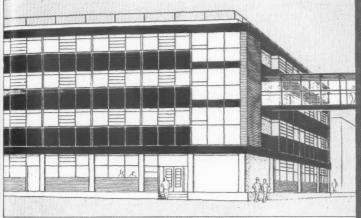
Recommended by the Ministry of Fuel and Power for Local Authority Housing

SAMUEL SMITH & SONS LTD.

BEEHIVE FOUNDRY
SMETHWICK 41 STAFFS.

Building the modern way

with Curtain Walling



Constructed for T. Lucas & Co. Ltd., Architects, George Brown & Partners, Bristol. A.R.I.B.A., F.I.A.S.

For all modern multi-storied structures the Templewood Hawksley Curtain Walling System has many definite advantages.

As in the case of this modern Spice Mill at Bristol, the designing architects were able to incorporate the basic principles of the scheme to their own design to produce a clear and pleasing exterior, simple to erect and maintain. In this instance, great use was made of the fact that the Templewood Hawksley System is designed to accommodate all types of infil material and spandrel panels, without structural modifications.

Write for full details to

ISTS

lines)

g

iter

g

sing

TEMPLEWOOD HAWKSLEY

WORLD LEADERS IN
ALUMINIUM STRUCTURES

TEMPLEWOOD HAWKSLEY LTD., SLOUGH, BUCKS.

TEL: SLOUGH 23212 Member of the Hawker Siddeley Group.

HALF A MILLION SQUARE YARDS OF FLOORING LAID IN THE U.K.

INCLUDING LARGE CONTRACTS FOR THE AIR MINISTRY, FORD MOTOR COMPANY, CADBURYS, VICKERS ARMSTRONG, TURNERS ASBESTOS, BOWATERS, UNILEVER, FERRANTIS.

Licences for "CHEECOLITE"
ROOF AND FLOOR
SCREEDS

Speed and efficiency ensured by use of modern plant operated by skilled labour.

Licencees for SYNTHANITE FLOOR SCREEDS

Photos: Laying & Power Floatin & mi-dry Granolithic Flooring

All enquiries to

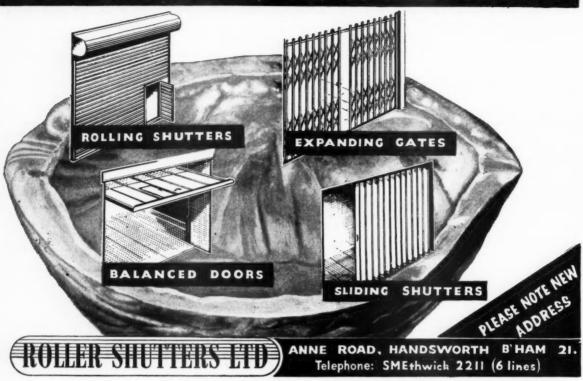
P.B. INDUSTRIAL FLOORING LTD.

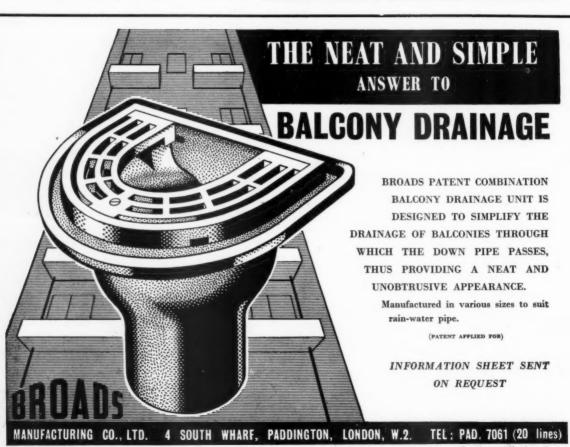
Malvern House, Green Lane, Liverpool, 13. 473, New Cross Road, London, S.E.14.

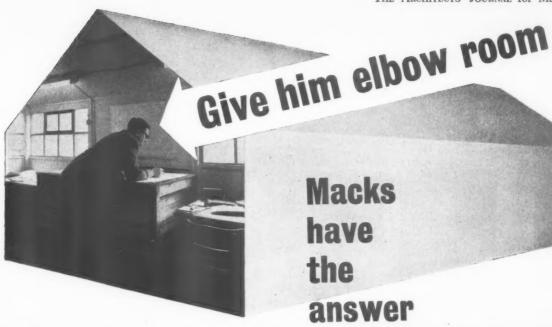




OUR PRODUCTS IN A NUTSHELL







Crowded working conditions are not conducive to efficient production. If economic conditions prevent your expansion by the construction of the usual type of building why not contact us and we shall be pleased to advise you on the best possible prefabricated building to suit your requirements.

MACKS STRUCTURES

(BIRMINGHAM) LTD.

★ HUTS FOR HIRE We can supply, from stock, Huts of various sizes.

Free delivery and erection on site.

Write for details.

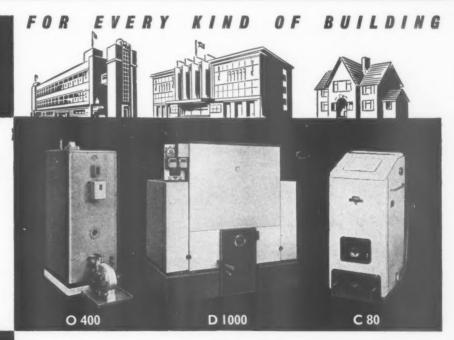
MACKS STRUCTURES (BIRMINGHAM) LTD., BELVEDERE WORKS, FELTHAM, MIDDLESEX Phone: Feltham 5761

Efficient Heating

by TRIANCO BOILERS Solid Fuel or Oil Fired

for Home, Office or Factory

- Thermostatic Control
- Superb Efficiency
- Great Economy
- Advanced Design
- Low Running Costs
- Expert Service



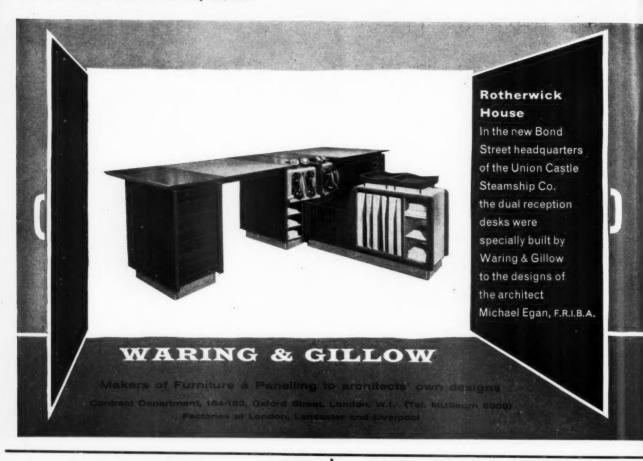


Trianco oil fired boilers are available in various capacities from 400,000 B.t.u. for use with various types of oil fuel. Efficiency rating is over 80% with completely automatic trouble free operation.

Trianco solid fuel boilers for industrial use range from 250,000 B.t.u. to 1½ million B.t.u. Successful installations throughout Britain prove the efficiency and low running costs of Trianco boilers.

Trianco domestic solid fuel boilers provide central heating and constant hot water and range from 50,000 B.t.u. to 180,000 B.t.u. Gravity feed thermostatic control and simple declinkering arrangements make Trianco the automatic choice.

Brochures on request:
TRIANCO LTD., IMBER COURT, EAST MOLESEY, SURREY. EMBERBROOK 3300





ATLE Y UP & OVER DOOR

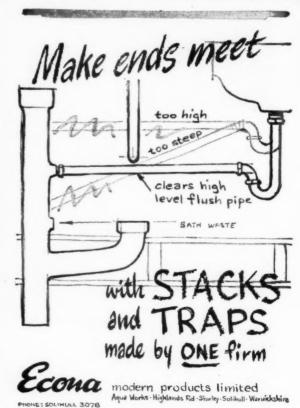
A GREAT IMPROVEMENT TO ANY GARAGE

Batley, smooth-sliding, trouble free 'Up and Over' Doors can be quickly and easily fitted to any width or height of opening.

Panelled with Ribbed Aluminium Alloy, standard size 7'5\frac{1}{2}" wide by 6'3" high.

Other sizes 6' to 8'1" wide by 6'3" high. ATTRACTIVE DEFERRED TERMS.

ERNEST BATLEY LIMITED 63d, Colledge Road, Holbrooks, Coventry. Telephone: Coventry 89245/6.





Heating and



Black panel space heating, hot water heating, plenum systems, fume extraction, and draught free ventilation are some of the systems we offer for factories, offices, schools, flats, etc. Design services are available.

If you would like to know more of our activities please ask for our booklet.

Ventilating systems



BIRMINGHAM & BLACKBURN

CONSTRUCTION CO. LTD.,

Armoury Close, Bordesley Green, Birmingham, 9.

And at Harley Street, Blackburn.

Stage 2





2" C.P.P. is the code symbol by which we describe our 2" Channel Reinforced Pre-plastered Wood Wool Roofing Slab. This slab is characteristically similar to the 2" Channel Reinforced Slab, being suitable for spans up to 7ft. and for use in low to normal humidity. During manufacture a pre-plastered soffit is incorporated which results in a clean smooth finish with excellent light reflecting and decorating properties. When covered with 1 screed and felt finish it has a calculated overall "U" value of 0.26 B.T.U. Unlike the plain slab, this slab has no sound absorption and may therefore be used in places where sound reflection is desirable.

This slab has excellent fire resistance, the rate of flame spread being Grade 1. Please write for full particulars to—

THERMACOUST LTD

ROOFING SLABS

20 ALBERT EMBANKMENT LONDON S.E.II TEL: RELiance 7281



When used in conjunction with inverted "T" purlins no special fixing arrangements are necessary. Type I site fixing clips can be used with R.S.J. or flat topped purlins.

topped parlins.

The slab may also be provided with any of the exclusive range of Thermacoust Pre-clips for fixing copper, SNAPRIB aluminium, slates or tiles.

Introducing the



JAPITE POLISHED FINISH

Produ 2ft. Please

CISTERN & COVER
FITTED WITH OVERHEAD LEVER

In response to many requests we have now adapted the well known Japite Polished Finish Cistern to take an overhead lever inset into the top of the tank. This results in greater leverage than is possible with side inlet levers. There is a choice of 2 types of flushing syphons. The well-known Japkap syphon or

Claughtor BROS. LTD.

Sanitary Lead Works

BRAMLEY, LEEDS 13.

TELEPHONE PUDSEY 2886

USE...

the **NEW** Tannating Primer



FORMULA 'E'
External Metal Treatment

SAFE . NON TOXIC . NON ACID

- * Prolongs the life of paint
- * Provides a perfect key
- * Removes corrosion
- * Easy to apply

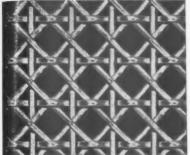
Consultants available throughout the United Kingdom

PLUS GAS COMPANY Ltd *

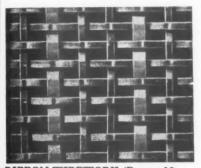
I/II HAY HILL, LONDON, W.I.

Telephone: HYDE PARK 9566/9

Manufacturers of the well-known Anti-Corrosion Fluids: Formula 'A' Dismantling Fluid (Rust Remover) and Formula 'B' Protective Fluid



METALACE (Pattern No. M1006) Produced in rolls of 25ft. to 100ft. by 2ft. IIin. wide. Please ask for List No. AJ875.



RIBBON WIREWORK (Pattern No. 1357W) Produced in flat panels to any size. Please ask for List No. AJ875.

TD.

rks

Decorative and Durable

For effective screening whilst allowing a free circulation of air, Harveys make a group of products which ensure harmony with any decorative scheme. The patterns illustrated are representative of three comprehensive ranges, available in a variety of metals and finishes.

'HARCO' PATENT METALACE WIREWORK RIBBON and

PERFORATED METAL AND PLASTIC



G. A. HARVEY & CO. (LONDON) LTD. Woolwich Road London, S.E.7 Telephone: GREenwich 3232 (22 lines)



PERFORATED **METALS** No. 388)

Produced in all metals and finishes.

PERFORATED PLASTICS can also be supplied.

Please ask for List No. AJ355.



Heatrae

Architects!

Recommend

HEATRAE :

WATERHEATER

F-B space-saving
HEATER shape

A complete hot water system in compact rectangular form. Heatrae's F.B. Cistern Type Electric Water Heater embodying its own ball valve feed tank, is ideal for Flats and is available in sizes up to 30 gallons capacity all Automatically controlled.

Please ask for leaflet DEG. Liberal terms available.

Established in 1920

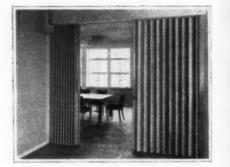


HEATRAE LIMITED · NORWIGH

Manufacturers of: Electric Water Heaters, Oil Heaters, Immersion Heaters, Urns, Towel Rails, Airing Cupboard Heaters, Hame-press Hoating Apparatus, Breakfast Cookers, Electric Fires, Food Trolleys, Warming Plates, Air Heaters



Simple Division



CLAS

Replie are of

308.

Full

Council AR/EK U

(c) A

UNIV DEP

The the

a mar ance Ment tion a salary Medic officer

Appopo

(b) S

(b) s

(J.5

for Schools and Offices

Modernfold sets your ideas free! Wherever flexibility is a consideration: whenever space is at a premium -specify Modernfold walls and doors. Individuallydesigned to ensure perfect fit and draught-proofing, they are covered in a soft and luxurious P.V.C. leathercloth which is highly flame-resistant. No

maintenance whatsoever is needed, thanks to the exclusive design of Modernfold's smooth-running overhead track. Write now for full constructional details and colour samples of Modernfold's luxury coverings.

modernfold expanding walls and doors

HOME FITTINGS (Gt. Britain) LIMITED. VICTORIA WORKS, WEST BROMWICH, STAFFS Telephone: WEDnesbury 0761. One of the BROCKHOUSE Companies.

He's taken care of tomorrow-today!



They are in love. The misfortunes that overtake other people seem so far away. Yet, being a responsible young

man he has already taken out a Confederation Life policy. Even when you are young and with the world at your feet, tomorrow can conceal some nasty blows. And, anyway, insurance 'reserves' may come in very useful later on, especially for buying a home.

May we supply you with full details of the unique benefits and safeguards of Confederation Life insurance designed to protect your loved ones and build up capital reserves?

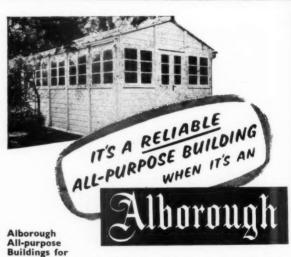
Write now to:



onfederation

(Incorporated in Canada in 1871 as a Limited Company) Assets over £120,000,000

J. H. B. Clover, Manage CONFEDERATION LIF Please send without obliga	er of U.K. Branches E ASSOCIATION, 18 Park Lane, London, W.I. ation, details of your ENDOWMENT Plan
Name	
Address	
A.J.5	Date of Birth



PAVILIONS FACTORIES SCOUTS'

HUTS **ASSEMBLY** HALLS

OFFICES

Prefabrication at its best! Concrete buildings for service! Only the proven dry assembly post and panel method is used in construction, ensuring durability and extreme rigidity even under slight movement of building over a period of years. Note Alborough adaptability:

SPANS. 12ft., 16ft., 20ft., 24ft., 28ft. and 32ft. widths LENGTHS. Only limited to multiples of 4ft. HEIGHTS.

Normally provided at 8ft., 9ft. and 10ft. eaves level. We invite applications for specifications and details of the Alborough complete erection service on sites within 75 miles radius of London.

Alborough Concrete Buildings are available in a variety of styles.

ASSOCIATED BUILDING CONSTRUCTION DEVELOPMENTS (RAYNES PARK) LTD.

34/35 ALPHA RD., SURBITON, SURREY. Tele: ELMBRIDGE 659 1/2/3

CLASSIFIED ADVERTISEMENTS

Replies to Box Numbers should be addressed

Advertisements should be addressed to the Advt. Janager. "The Architects' Journal." 9, 11 and 5, Queen Anne's Gate, Westminster, S.W.1, and Jould reach there by first post on Friday Jenning for inclusion in the following Thursday's uper.

Public and Official Announcements

30s. per inch; each additional line, 2s. 6d. DONDON COUNTY COUNCIL ARCHITECT'S DEPARTMENT Yacancies for (1) ARCHITECT'S, Grade III, spring salary up to \$1.090 a year. (2) ARCHITECTURAL ASSISTANTS, starting salary up to

figh.

Full and interesting programme of Houses, Flats, Schools and General Buildings.

Application form and full particulars from Habert Bennett, F.R.I.B.A., Architect to the Council, The County Hall, S.E.1, quoting Ref. AR/EK/21/58. (799)

Hapert Bennett, F.R.I.B.A., Architect to the (amcil. The County Hall, S.E.I., quoting Ref. 1872K/21/58. (799)

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE
Applications are invited for the following on staff of Architect and Buildings Officer:

(a) SENIOR ASSISTANT ARCHITECT. Scale 1925 × 250—21,175 p.a. Applicants should have particular experience in design, be School trained with at least five years' practical experience and be Registered Architects.

(b) ASSISTANT ARCHITECT. Scale 2750 × 290—21,030 p.a. Applicants should have particular experience in design and construction with at least four years' practical experience and be Registered Architects.

(c) ASSISTANT ARCHITECT. Scale 2725 × 230—221,030 p.a. Applicants should have passed Intermediate Examination of R.I.B.A. and be Registered Architects.

(c) ASSISTANT ARCHITECT. Scale 4725 × 230—21,030 p.a. Applicants should have passed Intermediate Examination of R.I.B.A. and be sudying for Final Examination. Good general experience in design and construction essential. Duties may include work on buildings for Itsching and research, students' hostels, staff residences, general purpose buildings and services. Posts are included in College Superannuation Scheme. Further particulars may be obtained from Architect & Buildings Officer, The College, Keele, Staffs, to whom three copies of application giving full details of age, qualifications, experience, etc., and names of three referees, should be sent within 10 days of publication of this advertisement.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG. SOUTH AFRICA DEPARTMENT OF ACCHITECTURE AND Applications are invited for appointment to a weant post of LECTURER IN ARCHITECTURE AND Applications are invited for appointment to a weant post of LECTURER IN ARCHITECTURE AND Applications are invited for appointment will be an added recommendation;

(b) be capable of lecturing on aspects of Architects, and must have adequate architectural Design and Construction, as well as conducting practical studio work in design. Dates ar

CITY OF LIVERPOOL ARCHITECTURAL AND HOUSING DEPARTMENT DEPARTMENT dications are invited for the following

Applications are

11

in

S

DEPARTMENT
Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. Salary, £750—
£1,030 p.a. (N.J.C. Scale):

(b) SENIOR ASSISTANT QUANTITY SURVEYOR. Salary, £1,025—£1,175 p.a.

(APT. IV).
Applicants for—
(a) should be A.R.I.B.A. or equivalent, for appointments in the General, Housing and Redevelopment Sections;
(b) should be A.R.I.C.S. (Quantities), or equivalent, and the duties will be mainly concerned with estimating for Housing work, and the control of incentive bonus schemes, Application forms, returnable by 31st May, 1958, are obtainable from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, 2.

The appointments are superannuable, and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

(J.5184)

CITY OF NOTTINGHAM

Applications are invited for the following appointments in the Chief Architect's Section:—
(1) ASSISTANT ARCHITECT at a commencing salary within the Special Scale (£750 × 240—21,030). Applicants should have passed Parts 1 and 2 of the Final Examination of the R.I.B.A.
(2) ARCHITECTURAL ASSISTANT at a commencing salary within A.P.T. Grades 1 and 2 (£575—£345), according to experience and qualifications. Applicants should have passed the Intermediate Examination of the R.I.B.A.
There is a large programme of interesting and varied work covering redevelopment schemes and estate development, which includes housing, shops, hostels, etc.

varies work covering the variety work covering to the variety shops, hostels, etc.

The appointments will be subject to the National Joint Council's Scheme of Conditions of Service, and the successful candidates will be required to

and the successful candidates will be required to pass a medical examination.

Applications stating age, qualifications, experience, present appointment and salary, and naming two referees, should be sent to the Estates Surveyor and Valuer. Guildhall, Nottingham, by Friday, 6th June, 1958.

T. J. OWEN, Town C'erk.

Guildhall,
Nottingham.

9465

NEWCASTLE REGIONAL HOSPITAL BOARD
ASSISTANT ARCHITECT—GRADE £700—£1,015

(P. H. Knighton, M.B.E., A.R.I.B.A.,
Regional Architect)
In connection with a large new hospital project,
the Board invites applications for the above
permanent (superannuable) appointment on the
Headquarters' Staff of the Regional Architect in
Newcastle.
Applicants must be Registered Architects. The
commencing salary, within the Grade £700×2£5(3)
×£30(1)×£36(6)—£1,015, will be fixed by reference
to relevant experience and to age.
The post offers opportunity for gaining allround general, as well as hospital, experience and
for doing good-class work in an expanding department.

for doing good-class work in an expension, ment.

Applications stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary of the Board, Benfield Road, Newcastle upon Tyne, 6, not later than 28th May, 1988.

9459

CITY OF CHESTER
CITY ENGINEER'S DEPARTMENT
SENIOR PLANNING ASSISTANT
Applications are invited for this new appointment at a point on the Special Grade. The work will be mainly concerned with re-planning of Re-development areas, and also with some aspects of development control. Applicants should be A.M.T.P.I. and/or hold Architectural or other suitable professional qualification. Housing accommodation will be available for successful candidate, if required. Applications, with two testimonials, should reach City Engineer, 49, Northgate Street, Chester, by Wednesday, 28th May. 1958.

ARCHITECTS INTERESTED IN DESCRIPTION.

Nortigate Street, Chester, by Wednesday, 22th May, 1958.

ARCHITECTS INTERESTED IN DESIGN and building of Colleges, Schools, Health Centres and other public buildings are needed in the offices of the Architect, Essex County Council. Opportunities for recent graduates or those now completing fifth year who would like varied work of public importance in a rapidly developing County.

Salaries (a) between 2750 and £1,030 for assistant architects with R.L.B.A. Final. and (b) between £755 and £725 for assistants at Intermediate R.I.B.A. Stage.

Apply H. Conolly, C.B.E., F.R.I.B.A.. County Architect, Essex County Council, County Hall, Chelmsford, Essex, and return form of Application by 6th June, 1955.

SINGAPORE POLYTECHNIC

Chelmsford, Essex, and return form of Application by 6th June, 1958.

SINGAPORE POLYTECHNIC
The Board of Governors invite applications for the following appointments for courses commencing in October.

LECTURER IN ARCHITECTURE. A 1st Year Studio Master. Qualifications: Diploma or Degree of a School of Architecture recognised for exemption from the examination of a Professional Architectural Institution.

LECTURER IN OUANTITY SURVEYING AND BUILDING CONSTRUCTION. Qualifications: Final examination of The Royal Institution of Chartered Surveyors, The Licentiate Examination of the Institute of Quantity Surveyors, The Licentiate Examination of the Institute of Builders, or equivalent.

Salary, incorporating all allowances—M\$1,500 × M\$50—M\$1.750 per month. (The Malayan dollar=2s, 4d, stirling.) Entry point according to qualifications and experience.

Appointment of overseas persons will be on contract for 3 years. Favourable Endowment Insurance Scheme; or arrangements to continue F.S.S.U. policy might be made. Accommodation, with heavy furniture, at a rental of M\$120 per month; free medical attention; free passages for overseas member of staff, wife, and up to three children under 18, on first appointment, leave, and completion of service; home leave at the rate of 60 days per year's service to be taken at the end of contract.

Application forms (4 copies) and further information obtainable from the Council for Overseas Colleges, 12, Lincoln's Inn Fields, London, W.C.2. Closing date: 20th June, 1958.

COUNTY BOROUGH OF BURNLEY
Applications are lavited for the undermentioned appointments in the Borough Engineer and Surveyor's Department;—
(a) PRINCIPAL ARCHITECTURAL ASSISTANT, Grade IV (£,025-£1,175).
(b) ARCHITECTURAL ASSISTANTS, Special Grade (£750-£1,30).
(c) ARCHITECTURAL ASSISTANTS, Special Grade (£750-£1,30).
(d) JUNIOR QUANTITY SURVEYING ASSISTANT, Grade II (£505-£555).
(d) JUNIOR QUANTITY SURVEYING ASSISTANT, Grade I (£75-£725).
Applicants for appointment (a) must be Corporate Members of the R.I.B.A., and must have had considerable experience in municipal work. Applicants for appointment (b) should preferably hold appropriate qualifications, but the successful candidate may be placed in the A.P.T. Grade range up to and including Special Grade, according to qualifications and experience. Applicants for appointment (c) must have experience as architectural draughtsmen and a good knowledge of building construction. Applicants for appointment (d) must have experience in the preparation of quantities and the measurement of building construction and experience in the preparation of quantities and the measurement of building work is essential. PROVISION OF HOUSING ACCOMMODATION MAY BE CONSIDERED. IF REQUIRED, IN RESPECT OF APPOINTMENTS (a) AND (b). Forms of application may be obtained from the Borough Engineer, 22-24, Nicholas Street, Burnley, to whom they should be returned not later than Wednesday, 4th June, 1988.

C. V. THORNLEY.

Town Clerk.

9496

COMMONWEALTH OF AUSTRALIA

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF LABOUR AND NATIONAL
SERVICE
Applications are invited for the position of
CONTROLLER, Technical Section, Industrial
Services Division (£A2,268-£A2,543).

CONTROLLER. Technical Section, Industrial Services Division (£A2,268-£A2,543).

Duties:
Plan and control the work of the Section, including research and advisory work on physical working conditions and accident prevention in industry. Preparation of technical publications.

Qualifications:
Carlotteristy degree in engineering or architecture, wide experience in problems of physical working conditions in industry; ability to plan research and to direct preparation of technical material for publication.

The appointee will be expected to have a good technical background, both academically and through practical experience in industry; familiarity with the problems of industrial working conditions, particularly in relation to accident prevention; a flair for planning and directing research; competence in directing the preparation of material for publications; and ability to lead a mixed team of technical specialists. He should also have the ability to secure the co-operation of outside bodies working in similar fields.

Conditions:

Conditions:
The position is permanent and pensionable, is located in Melbourne. First-class passages or the successful applicant and his family will is loo

be paid.

Enquiries and applications to Public Service
Board Representative, Australia House, Strand,
London, W.C.2, by 20th June, 1958.

9495

Board Representative, Australia House, Strand.
London, W.C.2, by 20th June, 1988.

CITY AND COUNTY OF THE CITY OF
EXETER
Applications are invited for the appointment of
STRUCTURAL ENGINEERING ASSISTANT
on the establishment of the City Architect's
Department, at salary within the Special Grade,
i.e., £750 to £1,503 per annum.
Applicants must be Associate Members of the
Institution of Structural Engineers, or hold
equivalent qualifications, and must have had
considerable experience in the design of reinforced concrete and steelwork structures, such
as for Schools, Public Buildings, etc.
The appointment will be subject to one month's
notice on either side and to the provisions of the
Local Government Superannuation Acts, 1937-53.
The successful applicant will be required to pass
a medical examination. Canvassing will disqualify, and applicants must disclose whether to
their knowledge they are related to any member
of the Council or to the holder of any senior
office under the Council.
Applications, stating age, qualifications, previous and present appointments and salaries, full
details of experience, and the earliest possible
date when available, should be sent to H. B.
Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect,
Municipal Offices, Exeter, not later than 7th
June, 1958.

C. J. NEWMAN,
Town Clerk.

C. J. NEWMAN

Exeter. May, 1958. May, 1958.

9497
COUNTY BOROUGH OF WOLVERHAMPTON
ASSISTANT required in the Town Planning
Office of the Borough Engineer's Department.
Duties connected with Land Charge Searches,
Property Acquisitions, and Development Control.
Salary Grade A.P.T. I (£575 to £725).
Housing accommodation will be provided in
approved cases.
Applications stating age, qualifications, training
and experience, previous appointments and
naming two referees to the Borough Engineer,
Town Hall, Wolverhampton, by Wednesday,
May 28th.

OXFORDSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited for the appointment of ASSISTANT ARCHITECT, to take charge of projects in the Authority's Building Programme and to direct a number of other Assistants. An interesting variety of schemes is in hand, with ample scope for contemporary design. Candidates must be Members of the R.I.B.A. and should have had some years of practical experience, not necessarily in Local Government. Salary within A.P.T., Grade IV (£1,025-£1,175) and subject to the Local Government Superamuation Acts, 1937 and 1953, and to medical examination.

tion.

Applications, giving age, qualifications and experience, together with the names of three referees, should be returned to the County Architect, Park End Street Offices, Oxford, by the 30th May, 1958.

GERALD GALE BURKITT,

County Hall, Oxford.

County Hall, Oxford.

LANCASHIRE COUNTY COUNCIL
ASSISTANTS required in the Architectural
Section of the Planning Department Headquarters at Preston. Salary Special Scale (£750£1,030). Applicants should be qualified Architects.
Planning experience is desirable but not essential.
Duties include the design of housing layouts and
central area re-development schemes, and the
preparation of working drawings for houses, flats
and shops.

and shops.

Applications, giving age, qualifications, present appointment, experience, etc., and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 2nd June, 1958.

9474

(a) ONE SENIOR ASSISTANT ARCHITECT, Special Grade (£750—£1,030). Applicants should be A.R.I.B.A. (b) ONE ASSISTANT QUANTITY SURVEYOR, Special Grade (£750—£1,030). Applicants should be A.R.I.C.S. (c) ENGINEERING ASSISTANT (HEATLING). Grade A.P.T. II (£725—£2845). Applicants should hold Higher National Certificate.

In special circumstances consideration will be

Certificate.

In special circumstances consideration will be given to starting salary above minimum of the grade. N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Council.

Applications

Council.

Applications, giving age, qualifications, experience, present post and salary, and the names of at least two persons to whom reference can be made, to be sent not later than 29th May, 1958, to the County Architect, County Offices, Lincoln.

9475

PERTH AND KINROSS JOINT COUNTY COUNCIL require an ARCHITECTURAL ASSISTANT for work on New Schools. The salary scale is A. & F. VI (2865–295), with placing. Applicants should hold the A.R.I.B.A. qualification, and have had at least two years' experience since qualification. A house will be available. Particulars of appointment and forms of application from the County Clerk, P.O. Box 15, County Offices, York Place, Perth. Applications to be lodged by 2nd June.

CLERK OF WORKS required at University College, Ibadan, Nigeria, to supervise substantial building contracts. Appointment on 18 months' contract in first instance. Salary: £1,100—£1,400 p.a., plus 10 per cent. gratuity. Part-furnished flat. Passages paid for appointee, wife, and three children under 11 years. Children's, car, and outfit allowances.

Detailed applications (six copies), naming two referees, to be sent as soon as possible to Secretary. Inter-University Council for Higher Education Overseas, 29, Woburn Square, London, W.C.1.

OFFICE OF THE RECEIVER FOR THE METROPOLITAN POLICE DISTRICT ARCHITECTURAL and SANITARY ENGINEERING DRAUGHTSMEN required. Starting pay (minimum 21 years) £550 to £755 per annum according to age and sex. Salary maxima £824 (women) £870 (men).

5 day, 42 hour week, paid leave, camteen facilities. Specialist experience will be an advantage for Sanitary Engineering Draughtsmen. Applications stating qualifications (ordinary National Certificate or equivalent training), experience, age, and nationality to Room 578 (AJ), Receiver's Office. New Scotland Yard, S.W.1. Do not send testimonials.

Applications are invited for the appointment of PLANNING ASSISTANT. Salary Grade A.P.T. II (£725-£945), commencing at a point within the scale, according to experience. A plus-age rate of £20 or £30 per annum, according to age, is also paid.

Applicants should have passed the Intermediate Examination of the Town Planning Institute. Housing accommodation available.

Applications, giving age, qualifications and experience, together with the names of three referees, should be forwarded to the Borough Engineer and Surveyor, The Bridge House, Dartford, by the 9th June, 1958.

COUNTY COUNCIL OF NORTHUMBERLAND COUNTY ARCHITECT'S DEPARTMENT Applications are invited from Architects who have passed the R.I.B.A. Final Examination, and having considerable practical office experience for the post of ASSISTANT ARCHITECT on the staff of this Department. Salary according to qualifications and experience on Special Grade (£750-£1.030 per annum) with prospects of promotion to higher grades within the office in due course.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination.

Applications in writing, stating age, qualifications and previous experience, together with the names and addresses of two referees to whom reference can be made, to be forwarded to the County Archite-tt, County Hall, Newcastle upon Tyne, I., within 14 days of the publication of this notice.

MIDDLESEX COUNTY COUNCIL

ASSISTANT ARCHITECT'S required in County
Architect's Department. N.J.C. Special Grade:
£750-£1,030 p.a., plus London weighting (£30 if
26 years or over, £20 21:25 years). Commencing
salary according to qualifications and experience.
Should have Parts 1 and 2 of R.I.B.A. Final
Examination. Prescribed conditions. Application forms (stamped addressed foolscap envelope)
from County Architect. 1, Queen Anne's Gate
Buildings. Dartmouth Street, S.W.I, returnable
by 11th June. (Quote X.500 A.J.) Canvassing
disqualifies.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE

OFFICE OF THE COUNTY ARCHITECT
Applications are invited for appointments as ASSISTANT SURVEYORS (Sites) in the undermentioned grades:

(1) A.P.T. I (£575 × £30—£725);
(2) Special (£750 × £40—£1,030).

Applicants for Grade A.P.T. I should have had good experience in surveying, levelling and plotting sites, and should be neat draughtsmen. Experience in surveying of buildings would be an advantage.

Experience in surveying of buildings would be an advantage.

Applicants for the Special Grade should have had extensive experience in surveying, levelling and plotting sites, be neat draughtsmen and capable of taking charge of a survey team. Preference will be given to Associate Members of the Royal Institution of Chartered Surveyors. Application forms with conditions of service are obtainable from this office, and should be returned not later than the first post on Tuesday, 10th June, 1988.

A. W. GLOVER, F.R.I.B.A., County Architect.

Bishopgarth, Westfield Road, Wakefield. 9521

Bishopgarth, Westfield Road, Wakefield.

BOROUGH OF BEDFORD

APPOINTMENT OF ASSISTANT QUANTITY

SURVEYOR.

Applications are invited for the post of ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. II (£725-£945), in the Architectural Section of the Borough Engineer and Surveyor's Office.

Applicants should be experienced in the preparation of Bills of Quantities, Interim Valuations and Final Accounts for all types of housing work, and should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors or Final Examination of the Institute of Quantity Surveyors. The office is in the charge of a qualified Quantity Surveyor. The Douncil are prepared to assist in the provision of housing and pay removal expenses.

Forms of application and particulars of the appointment may be obtained from the undersigned and returned not later than Monday, 9th June.

June.

F. W. DAWKES,

Borough Engineer and Surveyor.

Newnham House, Horne Lane, Bedford. 9520

OLDHAM EDUCATION COMMITTEE
Applications are invited from suitably qualified persons up to the age of 50 years for appointment as SCHOOLS ARCHITECT to the Oldham Education Committee. The salary is in accordance with Scale A for Senior Officers of Local Authorities (£1,160 per annum, rising by annual increments of £55 to £1,380 per annum). The appointment is subject to the provisions of the Local Government Superannuation Acts, 1937 to 1953, and the regulations made thereunder, and the successful candidate will be required to pass a medical examination. It is also a condition of appointment under the Council's Standing Orders that all employees must reside within a radius of 10 miles of the town centre. Forms of application and further details may be obtained from the Director of Education, Education Offices, Union Street West, Oldham, and applications should be returned not later than 7th June, 1958.

COUNTY BOROUGH OF BLACKBURN
Applications invited for the established posts of
ARCHITECTURAL ASSISTANTS (2) within the
Special Grade (2750-21,030). Candidates must
have the necessary qualifications and experience
relative to the Grade. Applications stating age.
qualifications and experience with not less than
two testimonials to Borough Engineer, Town
Hall, Blackburn, by Monday, June 9th.
FRANK SQUIRES,
Town Clerk.
9460

A RCHIT

quare.

iving according

A SSIST

State ag Box 9428.

N^{ORF} IM

Applications are invited for the following post of tions in the Education Architect's Department: 5. STRUCTURAL ENGINEER:
Candidates must hold a recognised qualification in Civil or Structural Engineering, e.4. A.M.I.C.E. or A.M.I.Struct.E., and have some experience in the design of structural steeleyer is and re-inforced concrete, including foundation work, and should also have a practical working work and should also have a practical working knowledge of site investigation and general experience of five years after qualifying, including three years' office designing, is also necessary.
Salary: £970×£40—£1,250 per annum.
ARCHITECT, Class I (2 vacancies):
Applicants must be registered and qualified by examination, and should be capable of supervising learning tectural staff. Preference given to those with Experience in modern school designing and construction.
Salary: £970×£40—£1,250 per annum. A SSIST M COM a fully ARCHITE

Box 9420.

truction.

Salary: £970 × £40 - £1,250 per annum.

ARCHITECT. Class II (2 vacancies):
Applicants must be registered Architects with
experience in general design and construction
of modern buildings.
Salary: £520 × £50 - £860 × £35 - £1,000 × £40 - £1,00 ARCHITECTURAL ASSISTANT, Class I

vacancies):
Applicants must have passed ahe Intermediate A good Examination of the R.I.B.A., and should have intragelists sound practical experience in design and on prospects struction and preparation of specifications.

Salary: £540 × £25 - £665 × £30 - £755 × £35 - £790 paranum (under review). SENIO

Salary: £540×£25-£000×£20-£100-£20 pannum (under review).

TECHNICAL ASSISTANT, Class I:
Applicants should have a sound experience of the building trade and ability to prepare detaile reports, specifications and estimates in connection with the maintenance of buildings and drawings of simple projects.

Salary: £610×£25-£660×£30×£25×£3

tion with the manner of the projects.

Salary: £610 × £25-£660 × £30 × £25 × £30 memor.

× £25-£770 per annum.

Commencing salary will be fixed according to experience. Superannuation contributions approximately 6 per cent. of remuneration will be write f payable. Reciprocal pension arrangements exist London, between the Corporation and certain other Public Countries.

payable. Reciprocal pension and certain other Public Authorities.

Canvassing will disqualify.

Application forms, etc., are obtainable from the Education Offices, 40, Academy Street.

Completed applications must reach the signed by Thursday, 12th June, 1958.

JOHN DUNLOP, Town Clerk

City Hall, Belfast. 15th May, 1958.

COMP

CITY OF MANCHESTER HOUSING DEPART EXPLAINMENT require:

T require :- DIRECTOR OF HOUSING (qualified Archi Written

1. DIRECTOR OF HOUSING (qualiness and written tect). Salary &2.445/£2.760 per annum.
2. CHIEF QUANTITY SURVEYOR. Salary &1.210/£1,380 per annum.
Further particulars and application forms (to turnable by Monday, 9th June, 1958) from Town Clerk (F), Town Hall, Manchester, 2.

QUAL

Architectural Appointments Vacant 4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. estn

TREHEARNE & NORMAN, PRESTON A
PARTNERS have vacancies for ASSIS
TANTS. Salary according to experience and
qualifications. Apply: 83, Kingsway, W.C.
(HOL 4071).

INTERMEDIATE standard ASSISTANT required in small country practice on south Devon coast. Starting salary about £400 plus (if required) new unfurnished self-contained flat at nominal rent. Rate of advancement directly proportional to productivity. Prospect of responsible position with share of profits for right type, after probationary period. Conscientiousness essential. Write 10 Alec H. Joy, A.R.I.B.A. Victoria Place, Kingsbridge.

SENIOR ARCHITECTURAL ASSISTANT. capable of making site surveys, preparing sketch plans and working drawings and supervising work in progress. Knowledge of shof fitting an advantage.—Applications, stating age experience, qualifications and salary required, to R. E. Akerman. F.R.I.B.A., Chief Architect. United Dairies, Ltd., 31, St. Petersburgh Place. W.2.

A RCHITECTURAL ASSISTANT required approaching or at Intermediate stage, salary post of arrangement, one day per week for studies. Plaskett Marshall, F.R.I.B.A., 59, Gordon Englare, W.C.1. Telephone: MUSeum 7176, 9385

quare, W.C.1. Telephone: MUSeum 7176. 9386

agare, W.C.1. Telephone: MUSeum 7176. 9386

agare, W.C.1. Telephone: MUSeum 7176. 9386

agare and experience and preferred.

elwonling accommodation, and car provided. Salary orking accommodation, and car provided. Salary orking to age and experience.—Box 9472.

AIOR PETROLEUM DISTRIBUTION action of the fully qualified and experience at the fully qualified and experience at the fully qualified and experience. ENIOR are fully qualified and experience at the fully qualified and experience. Fost-site of the stations. Salary according to experience. Post-prising the will be permanent and pensionable to the stations. Salary according to experience. Post-prising the will be permanent and pensionable set with Excellent working conditions, staff restaurant, deal of the stations of the full intensity of the stations and experience, to selected for interview.

s with ASISTANT, passed Intermediate, required for Ainteresting and varied work with fair £1,64 measure responsibility. London practice. Box 5510.

ARCHITECTURAL ASSISTANT required in Agood class West End practice. Neat have: dramfisman, with knowledge of detailing. Good of cospects to gain wider practical experience.

Senior and Junior Assistants required urgently, Architect's office, Maidstone, Kent. State age, experience, and salary required.—Box 9428.

NORFOLK Architect has vacancy for PUPIL/IMPROVER, with small salary to commence.—Reply with details to Box 9469.

ing to LANCHESTER & LODGE urgently require ns of ASSISTANTS, around Inter. standard.—will be Write full particulars, 10, Woburn Square, exist London, W.C.1.

Public

OUIS DE SOISSONS, PEACOCK, HODGES

& ROBERTSON have a vacancy for an
e from \$SISPANT, preferably with experience in
design and presentation of sketch schemes, etc.
under Write stating age, salary and experience to the
hove at 3, Park Square Mews, Upper Harley
Stret, London, N.W.I.

Clerk

COMPETENT and experienced ASSISTANT

COMPETENT and experienced ASSISTANT required for small busy practice in the West End. Shaw & Lloyd, 74, Great Russell Street, William 9693.

vincent Burr and Partners urgently require another architectural assistant tast of the scale freat scope for future promotion. Large and 20-ared practice. Salary according to experience, above apply by letter only to 85, Gower Street, London, positions.

by post of post of the post of

PART

EXPERIENCED SENIOR and INTERMEDIATE ASSISTANT required for expanding
Architectures are accepted by the senior of the sen

ns (re Town QUALIFIED ASSISTANT required. London 948 or 9509.

cant , 2s. 6d s. estr

ON ASSIS ce and W.C.1 940

T

south
o plus
ed fist
lirectly
of re
r right
ousness
I.B.A.
9381

TANT

supering supering age, red, to chitect. Place. 9421

THE ENGLISH ELECTRIC COMPANY

ARCHITECTURAL ASSISTANTS
TO work in their Architect's Department at
Whetstone near Leicester. Work will include new Offices, Workshops, Canteens, etc., and
applicants should be good draughtsmen with a
good knowledge of construction. Previous industrial experience would be an advantage but is not
essential. The posts offer good prospects to the
right men and are permanent.
Please write giving full details of qualifications
and experience to Dept. C.P.S., Marconi House,
3567, Strand, London, W.C.2, quoting Reference
AJ 1999A.

SIR PERCY THOMAS AND SON require several SENIOR and JUNIOR ASSISTANT ARCHITECTS in their Cardiff and Swansea Offices. Projects include Hosnitals, Schools, Industrial and University buildings and good prospects are offered for men with initiative. Commencing salaries:—Seniors—2900 per annum. Generous holidays and good working conditions. Applications should be made giving full details of age, education, qualifications and experience and should state clearly the position applied for to "The Secretary," 10, Cathedral Road, Cardiff.

A RCHITECTURAL ASSISTANTS required having two to three years' office experience for large West Central London practice dealing with Office Buildings, Laboratories, Hospitals, Medical Schools, and University work, etc. Salary range according to experience, £700 to £850; Yearly Bonus Scheme; Lunch Vouchers; and a five-day week. Apply Box 9494.

JACK GODFREY-GILBERT, F.R.I.B.A., requires ASSISTANT able to take responsibility to help in small but busy private office with general practice. Apply in writing to: 3, The Broadway, Wimbledon, S.W.19.

A RCHITECTURAL ASSISTANT required by West End office. Salary up to 2900 per annum according to experience. Five-day week. Please telephone REGent 2055 for appointment.

SENIOR ASSISTANT with two or three years' experience required by medium size Office in South Kensington. A good designer is essential. Interesting and varied work. Box 9490 or phone KEN 1242-4.

ARCHITECTURAL ASSISTANTS required by the National Coal Board in Edinburgh.
Assistants Grade 1: Salary £715—£580 (exceptionally to £1,000), qualifications Intermediate R.I.B.A. with three years' subsequent practical experience or equivalent.
Assistants Grade 2: Salary £595—£710, qualifications Intermediate R.I.B.A., but less than three years' subsequent practical experience. Exceptional applicants who have not passed the Intermediate R.I.B.A. may be considered. The noint of entry will depend on qualifications and experience. Applications, stating age, education, qualifications, experience, present post and salary, to the Divisional Chief Staff Officer, National Coal Board, 3, Eglinton Crescent, Edinburgh 12.

A RCHITECTURAL ASSISTANTS required for Hospital and other work, some office ex-perience necessary, Intermediate or Final stan-dard, five-day week. Apply to Adams, Holden & Pearson, 38, Gordon Square, W.C.1.

A SSISTANT required for busy small private office near Birmingham. Not below Intermediate standard, Salary £575 p.a. upwards according to ability and experience. Apply with full particulars. Box 9530. full particulars.

LOYDS BANK have vacancies for JUNIOR ASSISTANTS aged between 16 and 23 in the offices of their Staff Architects at Birmingham, Beeds and Exeter. Selected applicants will be required to study to become Registered Architects, and gratuities and salary increases are obtainable on passing technical examinations. Permanent pensionable positions obtainable by selected applicants after preliminary trial. Progressive salary scale according to age and qualification. Apply in writing, giving particulars of age, education, experience, salary required, and if available for interview in London or one of the other offices named, to Chief Staff Architect, Lloyds Bank Limited, 71, Lombard Street, E.C.5.

YOUNG qualified ASSISTANT ARCHITECT required. Must be neat and expeditious drawpitisman. Capable of preparing designs and working drawings for new buildings and shopfitting. Apply, giving age, experience and salary required, to Staff Architect, Prices Tailors Ltd. Cardigan Crescent, Leeds, 4.

WANTED immediately: qualified experienced Applointments vacant for Senior and Intermediate grades. Apply, asting qualifications, experience, Apply privaled and the prospects for right men according to experience. Apply and the prospects for right men according to experience, Apply and the prospects of the properties of the prospects of t

INTERMEDIATE standard ASSISTANT required for permanent position, capable of preparing working drawiness and details for wide variety of work. Apply with full particulars to Messrs. J. W. Hammond, Chartered Architects & Surveyors, Lloyds Bank Chambers, Main Road, Gidea Park, Romford, Essex.

W. BEAUMONT & SONS require an ARCHITECTURAL ASSISTANT in their Manchester office. The work is varied and interesting. A contributory pension scheme is in operation. Please write giving full particulars to: 51. Mosley Street, Manchester, 2.

A RCHITECTURAL ASSISTANTS of varying grades required for industrial and commercial architects in London. Three to ten years' office experience. Salary according to qualifications and experience. Reply giving details of age, experience and salary required to Box 9526.

Architectural Appointments Wanted 4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

A RCHITECTURAL ASSISTANT (24), Final R.I.B.A. standard, seeks a position in which he can gain experience in approximate estimates, specifications, supervision on sites, negotiations with various authorities, general office routine, and placing and management of contracts.—Box 9448.

SCHOOL trained ARCHITECT, mid thirties, seeks post in London area with responsibility and prospects. Box 9508.

A SSISTANT, six years' office experience, requires part-time work in any capacity. London and Home Counties. Box 9499.

B.A., A.R.I.B.A., 27, Dip.T.P. Finals, wishes to by-pass usual frustrations of "inexperienced" label, learn fast, have responsibility, scope for initiative, salary to match, in country practice leading to partnership. Executive and administrative experience at university and as R.A.F. Officer. Box 9478.

THE ACME FLOORING & PAVING COMPANY (1904) LTD

ESTABLISHED 1864

River Road Barking Essex THE COMPANY WILL GLADLY SEND

on request their latest

TECHNICAL BROCHURE

on IMMOVABLE-ACME HARDWOOD FLOORS for Public Buildings, Offices etc., and ACME PAVING for heavy duty factory floors.

Telephone:

RIPpleway 2771 (7 lines)

Telegrams:

Dowelled-Easphone-London

Other Appointments Vacant
4 lines or under, 9s. 6d.; each additional line, 2s. 6d.
Boo Number, including forwarding replies, 2s. soira

Bee Number, including forwarding replies, 2e. estra

LEADING Flooring Contractors with live connection among Architects wish to engage a MANAGER with experience of organisation and laying of linoleum, plastic and rubber tiles, etc. Salary commensurate with experience and qualifications. All replies will be treated in strict confidence. Apply to Box 9487.

SECRETARY with architectural experience required; drawing ability an advantage. Apply Leslie Walker, Architect's Department, John Perring Ltd., 26/28 London Road, Twickenham, Middlesex. POP 3652.

P823

PRAUGHTSMAN. Male assistant of Intermediate standard to prepare structural schemes and finished projects under supervision required for Drawing Office in large Multiple Firm. Knowledge of shopfitting would be an advantage. Pension Scheme and Staff Restaurant. Reply stating age, experience and salary required to Box 9522.

Other Appointments Wanted
4 lines or under, 9s. 6d.; each additional line, 2s. 6d.
Box Number, including forwarding replies, 2s. extra. TRACER, married woman, six years' architectural and engineering experience, seeks position in London or preferably Croydon area. Box 9505.

Services Offered

Services Offered

New York of the Control of the Co

MUSeum 8753.

THE SITE SURVEY COMPANY
Blackheath, S.E.3. Tel.: LEE Green 7444-5
Fully equipped to undertake urgent Engineering
and Architectural surveys in any part of the
country and abroad. Specialists in ½ in. scale
detailed surveys for extensive city development

TIBREGLASS/PLASTICS BOOFING, CLAD-DING, PARTITIONING. Manufacturers producing all standard forms are also able to laminate your own decorative patterns, Sanderson prints, etc., in translucent or opaque materials to Specification.—Structural Plastics, Ltd., Bythorne, Dover, Kent.

NAMEPLATES, PLAQUES. CRESTS, etc., in bronze, brass, and plastic; quotations and lay-outs submitted.—Abbey Craftsmen, Ltd., Abbey Works, 109a, Old Street, London, E.C.1. CLE, 3345.

MAILING? 14,553 Architects. Addressing, enclosing, and despatching Literature.— I.M.S., 81, Blackfriars Road, London, S.E.1. 9451

A RCHITECT, Bristol area, offers services free-lance, complete working drawings, sketch schemes, surveys, etc. Box 9481.

A RCHITECT (A.R.I.B.A.) in private practice on outskirts of London, dealing with wide variety of Industrial. Commercial and Domestic work, wishes to contact firm of architects with view to reciprocal assistance in periods of fluctuating pressure of work, Box 9479.

A.R.I.B.A. with own practice is able to offer assistance to other architects by preparation of drawings; carrying out surveys of complete handling of smaller jobs. Experience of all classes of work, car owner, distance no object.

A R.I.B.A. offers part-time assistance, includ-ing perspectives, to Architects in Central London area. Quick, neat work and reasonable fees. Box 9524.

Partnership and Financial

6 lines or under, 15s.; each additional line 2s. 6d. Box No., including forwarding reply. 2s. extra.

A SSOCIATE, M.A. Dip.Arch., 32, requires practice or partnership in provincial town. Five years' varied experience in private practice, capital available. Box 9498.

For Sale and Wanted

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra.

FOR SALE. Double Elephant Dyeline Photographic (Halden). Regularly serviced by Telephone: Regent 5489.

MASSIVE genuine antique oak window frames complete with leaded windows; 4 off 6 ft. × 10 ft. in 5 panels; 1 off 6 ft. × 7 ft. 9 in. in 4 panels; 4 off 6ft. × 6 ft. in 3 panels. Could be cut to smaller sizes. John Lawrenson, Lane End. Itchingfield. Nr. Horsham, Sussex. Phone Slinfold 434.

Miscellaneous

4 lines er under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra.

A. J. BINNS, LTD., Specialists in the supply and fixing of all types of Fencing, Gates 96/107, St. Paul's Boad, N.1. Canonbury 2661.

CANTEEN and Restaurant Kitchens expertly planned and fitted. Reconditioned or new equipment available. Rental facilities if required. Designer will call. Commercial Catering Equipment Co., Ltd., 29, Abingdon Road, Kensington, W.8. Tel. WEStern 0936.

A RCHITECTURAL METALWORK of all types supplied and fitted. Gates, doors, balustrades, staircases, steel structures. Design staff available.—Clayton & Bamber, Ltd., Cartersfield Road, Waltham Abbey, Essex.

A CCOMMODATION offered Architect's con-temporary house, Dorking. Use office facilities, etc. Would suit married couple, or single man.—Write Box 9334.

ARCHITECTS or Surveyors offices, Bourne-mouth. 4 Rooms, 1,100 sq. ft., 2nd floor, excellent position. Additional room first floor optional. Good light, rental 6/6d. sq. ft. includ-ing central heating and cleaning services. Apply Tyson, 26, St. Peter's Road, Bournemouth. 9411

CROGGON & CO., LTD.—Chain Link Fencing and all types of Wrought Iron Fencing supplied and erected.—230, Upper Thames Street, London, E.C.4. CENtral 4382. 9429

Educational Announcements

4 lines or under, 9s. 6d.; each additional line, 2s. 6d. Box Number, including forwarding replies, 2s. extra

R. I.B.A. and T.P.I. EXAMS.—Stuart Stanley (Ex. Tutor Sch. of Arch., Lon. Univ.), and G. A. Crockett, M.A./B.A., F./F.R.I.B.A., M./A.M.T.P.I., prepare Students by correspon-dence. 10, Adelaide Street, Strand, W.C.2. TEM.

R I.B.A. Inter. and Final EXAMS.
F.R.I.B.A., 115, Gower Street, W.C.1. Tel.: 1948.
EUS. 3966.

EUS. 3906.

CITY OF LEEDS EDUCATION COMMITTEE LEEDS COLLEGE OF ART Principal: E. TANIOR, R.E., A.R.C.A.

SCHOOL OF ARCHITECTURE AND TOWN PLANNING Head: F. Chippiddle, F. R.I.B.A.

DEPARTMENT OF TOWN PLANNING

Senior Lecturer in Charge: W. K. SMIGIELSKI, (1) CERTIFICATE COURSE IN TOWN PLANNING (three years' part-time day and evening), qualifying for entry to the Diploma Course in Town Planning of this School without passing the Intermediate Examination of the Town Planning Institute, open to candidates at least 17 years of age with requisite general education.

(2) DIPLOMA COURSE IN TOWN PLANNING (three years' evening) recepting from the Final Examination of the Town Planning Institute, open to Architects, Engineers, Surveyors, Geographers and Economists.

Applications for the session 1958-59, beginning 15th September, are now being considered.

Further particulars can be obtained from the Clerk to the School, 45a, Woodhouse Lane, Leeds, 2. Telephone No. 32491/2.

GEORGE TAYLOR,

Chief Education Officer.

COURSES for all R.I.B.A. EXAMS. Postal tuition in History, Testimonies, Design, Calalations, Materials, Construction, Structures, Hygier Specifications, Professional Practice, etc. Also general educational subjects.

ELLIS SCHOOL OF ARCHITECTURE Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A. 103B OLD BROMPTON RD., LONDON, S.W.J. and at Albany House, Worcester



Service is available throughout the country. Technical literature will be sent on request.

GLMSON & CO. ALDRESS, LTD. VULCAN ROAD, LEICESTER

: Laicenter 27272

Grams: Gimosa Lai

If y on b

the

Arc

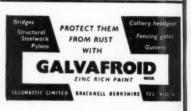
the over

or t in th

post

We

adv



HEATING . SOUND ABSORBTION . full details of STRAMAX RADIANT HEATED CEILINGS are given in the Architects Journal Information Sheet No. 29. H.5 dated Dec. 12th, 1957. Copies of this and fully illustrated literature on request from STRAMAX CEILINGS (G. B.) LTD.
19 REA STREET, BIRMINGHAM, S. Tel: MID 4674

BROAD-ACHESON BLOCKS for unvarying quality with REVEAL BLOCKS for 44 & 3 STRUCTURAL SIZES



SYSTOM Rolling Shutters

MANUFACTURED IN STEEL, WOOD & ALUMINIUM

GALVANISED SHUTTERS AND SERVERY HATCHES TO SUIT ALL REQUIREMENTS

J. TAYLOR (SYSTON) LTD. - SYSTON - LEICESTER TELEPHONE: SYSTON 2133 - MANCHESTER OFFICE: RINGWAY 3996

AJ enquiry service

If you require catalogues and further information on building products and services referred to in the advertisements appearing in this issue of the Architects' Journal please mark with a tick the relevant names given in the index to advertisers overleaf. Then detach this page, write in block letters, or type, your name, profession or trade and address in the space overleaf, fold the page so that the post-paid address is on the outside and despatch. We will ensure that your request reaches the advertisers concerned.

NG TED real 1957.

4674

rs J M

ER 96 Postage will be paid by Licensee No Postage Stamp necessary if posted in Great Britain or Northern Ireland

BUSINESS REPLY FOLDER Licence No. S.W. 1761

THE ARCHITECTS' JOURNAL
9-13 Queen Anne's Gate

London, S.W.1.

Alphabetical index to advertisers

	PAGE	CODE		AGE CODE		PAGE		ODE
A.B.C.D. (Rayners Park)	86	0879	FEB (Great Britain), Ltd	9 0226	P.B. Industrial Flooring	79		0954
Acme Flooring & Paving Co., (1904)	00 =	7 0001	Flextella Fencing	66 0944	Parkes, Josiah, & Sons, Ltd	50	_	0810
Ltd	89	0004	Freeman, Joseph, & Sons, Ltd	7 0244	Peglers, Ltd	73		0430
Antiference Installations	67	0667			Permanite, Ltd	63		0432
Architectural Press	70	0686	G.K.N. Reinforcement, Ltd	37 0568	Philips Electrical, Ltd	35		0435
Armstrong Cork Co., Ltd	20	0839	Gas Council	83 0250	Plus Gas Co., Ltd	84		0712
Associated Fire Alarms, Ltd	13	0032		90 0255				
Austin, James, & Sons, Ltd	51	0036	Gimson & Co., Ltd		Reliance Telephone Co., Ltd	61		0848
			Glamarock, Ltd	54 0915	Rippers, Ltd.	39		0470
			Gliksten & Son, Ltd	18 0257	Robertson Thain, Ltd			0473
Batley, Ernest, Ltd	82 [0045	Greenwoods & Airvac Ventilating	~ · · · · · · · · · · · · · · · · · · ·	Roller Shutters, Ltd			0708
Bayliss, Jones & Bayliss, Ltd	68	0960	Co., Ltd 2,		Roner Shutters, Ltd	00		0108
Bilston Foundries, Ltd	94	0614	Gyproc Products, Ltd	47 0262				
Birmingham & Blackburn Con-	hee	_			Scalaged Lumbon Salas Co. I td	30		0496
struction Co., Ltd	83	0618	Hailwood & Ackroyd	76 🖂 0265	Seaboard Lumber Sales Co., Ltd	90		
Blacknell, H. & H	72	0064	Hall, J. & E., Ltd.	8 0266	Secomastic, Ltd.			0501
Boulton & Paul, Ltd	12	0072	Harvey, G. A., Co., Ltd.	85 0276	Sissons Bros. & Co., Ltd	38	Samuel .	0514
Bow Slate & Enamel Co., Ltd	33	0075	Haskins	49 0278	Smith, Samuel, & Sons, Ltd	78		0520
Briggs, William, & Sons, Ltd	78	0082			Sommerfelds, Ltd	6		0523
British Aluminium Co., Ltd	24	0084	Heatrea Ltd.	85 0282	Standard MacLean, Ltd	44		0995
British Plaster Board Co., Ltd	41	0099	Henderson, P. C., Ltd	56 0284	Steels Engineering Installations,			
British Steel Construction, Ltd	31		Hermseal Acoustics, Ltd	16 0089	Ltd	48		0750
Broad & Co., Ltd.	90		Hills, F., & Sons, Ltd	25 0291	Steventon, John, & Sons, Ltd	32		0649
Broads Manufacturing Co., Ltd	80		Hill, Richard, Ltd	26 0688	Stott, James, Ltd	55		0535
Broughton Moor Green Slate	00 [7 0.00	Home Fittings, Ltd	86 0300	Stramax Ceilings Ltd	90		0908
Quarries, Ltd	77 [0111	Hope, Henry, & Sons, Ltd	57 0302	Sylglas Co	77		0927
Quarries, Dea					Szerelmey, Ltd	93		0928
	-0.5	7 0000	Ibstock Brick & Tile Co., Ltd	65 0305				
Cafferata & Co., Ltd	53	0998			Tarmac Vinculum, Ltd	2		0541
Canadian Government	11	0119			Taylor, J. (Systons), Ltd			0542
Claughton Bros., Ltd	84	0138	James, W., & Co., Ltd	93 0319	Teleflex Products, Ltd	22		0544
Crane, Ltd.	15	0164	Jones, T. C., & Co., Ltd	21 0323	Templewood Hawksley, Ltd	79		0892
Crittall Manufacturing Co., Ltd.		0165			Thermacoust, Ltd	84		0547
Crittal, Richard, Co., Ltd		0955			Thorn, J., & Sons, Ltd			0550
Colt Ventilation, Ltd	3	0146	Key Engineering Co., Ltd	10 0326	Timber Development Association.			
Confederation Life Association	86	1007	Kingston (Architectural Crafts-		Ltd			0554
Constructors, Ltd		0152	men), Ltd	34 0330	Timber Fireproofing Co., Ltd		_	0555
Coseley Engineering Co., Ltd	43	0155			Tomkinson			1008
					Trianco	81		0559
			Le Bas Tube Co., Ltd	46 0338	Troughton & Young, Ltd	64		0561
Demolition & Construction Co.,		_	Liquitile Supply Co	74 0923	Trussed Concrete & Steel Co., Ltd.	52		0563
Ltd	69		London Brick Co., Ltd	17 0353				
Dorman Long (Steel), Ltd	72 [0186						
			25 1-1 - 0 77 1 - 711	00 - 0050	Venesta, Ltd	67		081
Econa Modern Products, Ltd	82	0201	MacAndrews & Forbes, Ltd	93 0359	Vigers Brothers, Ltd	42		058
Ellis School of Architecture	1	0212	Macks Structures, Ltd	81 0748				
Engert & Rolfe, Ltd.		0952	Marley Concrete, Ltd	60 0370	Walker Crosweller & Co., Ltd	. 59		058
English Clock Systems, Ltd		0214	Mellowes Co., Ltd	76 0714	Walker Symondson, Ltd.			085
English Electric Co., Ltd		0215	Morris, M. A., Ltd	62 0397	Wardle Engineering Co., Ltd			059
English Joinery Manufacturers		- vero			Waring & Gillow, Ltd.			059
Association		0681	Negus, W. M., Ltd.	77 🗆 —	Washington Engineering Co., Ltd.			059
Evode, Ltd.		0939	Nife Batteries	67 0413	Wilson, Henry, & Co., Ltd		Santon	100
Art Otto, Little	0	0000	Alle Datteries	01 0419	, william, memy, & co., man	90		100

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc.. Education, Legal Notices, Miscellaneous, Property, Land and Sales, see 87, 88, 89, 90.

Write in block letters, or type, your name, profession and address below, and fold so that the post-paid address is on the outside.

NAMB		
PROPESSION	 	
ADDRESS		

E

ecor nd pr emen rany

Encautive walls ance. It is range Specif short gallon It is is cut neces: thoroon to



JAMES make good METAL WINDOWS

W. JAMES & CO. LTD. Hythe Rd. Willesden Junction LADbroke 6471 (6 lines) N.W.10



Encaustic is a waterproof decorative material giving exterior walls a pleasing stonelike appearance.

It is available in a wide colour range.

Special Architectural Service— specified colours matched at short notice for quantities of five gallons and over.

It is inexpensive, as labour time is cut. No preparatory mixing is necessary. After stirring thoroughly it is brushed straight

OUR REPUTATION

Architects will be familiar with our first-class reputation for the Preservation and Restoration of many well-known buildings. Encaustic has been proved in extensive use in this work.

AN INVITATION We will he pleased to advise on the use of Encaustic, or any waterproofing problem. Write or 'phone Szerelmey Ltd., Sorata Works, Rotherhithe New Road, London, S.E.16. Tel.: Bermondsey 3094.



SZERELMEY LTD · LONDON S.E.16 ESTABLISHED OVER 100 YEARS SPECIALISTS IN PRESERVATION

Timber Connectors

"TECO' Double-Bevelled Wedge Fit SPLIT RINGS



(Pat. No. 593945) Manufactured to B.S.S. 1579: 1953, Table 1.

The improved Split-ring with double bevelled inside and outside faces, makes it easy to insert in pre-cut wedge shaped grooves without damage to timber and avoids the use of a ring spreader or excessive hammering. Available in 2½ in. and 4in. internal diam. Special grooving tools also available. Suitable for all types of timber in light, medium and heavy structures

'TECO' Heavy-Duty SHEAR PLATES



Manufactured to

B.S.S. 1579: 1953, Table 2.

Inserted in pre-cut daps made by special dapping tools which are available for the purpose. 'TECO' 28in, diam, SHEAR PLATES provide heavy shear load capacity for use in large structures for connections between timber and steel, timber and concrete, or used back to back in demountable structures.

'BULLDOG' Round Toothed-Plate CONNECTORS

Available in five diameters-selfembedding-for light and medium Made in two typesstructures double-sided for timber-to-timber connections, single-sided as a shear plate for connections between timber and steel, or used back to back in demountable structures



Manufactured to 1953, Table 3.

'TRIP-L-GRIP' FRAMING ANCHORS

For stronger nailed joints in timber framing. Eliminates toe-nailing and notching. Simplifies fabrication. Easy to place. Fixed by nailing only. For many applications in timber framing such as joist trimming and hanging, studding, fixing purlins and joists to trusses and laminated beams, ceiling grounds, etc. For use with 2in. by 2in. and larger timbers.



(Pat. No. 682101)

The above products are backed by over twenty years' specialist experience. Full technical data is contained in our "DESIGN MANUAL FOR TIMBER CONNECTOR CONSTRUCTION". obtainable FREE on application. TYPICAL ROOF TRUSS DESIGN SHEETS and expert consultant service

AVAILABLE FROM:

MACANDREWS & FORBES

2 CAXTON STREET LONDON S.W.I TEL: ABBEY 4.451-3

For satisfaction year after year - specify the

BILSTON ATTANTA



No matter how many homes are involved, standard specification of the Bilston Atlanta ensures constant satisfaction. Its brilliant enamel finish remains unimpaired year after year! The Bilston range includes the exact colour required for any decorative scheme. Specify the Atlanta - it costs no more than an ordinary bath.

> Bilston Baths for lasting beauty

Atlanta . Magna . Cresta . Marina e Mermaid .

Bermuda .

for young and old. The Atlanta can be fitted to give an overall height of only 16".

With the Atlanta, taps can be fitted in three different positions to meet all possible requirements.

Corner tap mounting facilitates installation and maintenance.

The Atlanta is supplied with or without overflow. with or without handgrip.

BATH

widths), and 72" lengths.

The Atlanta 54, 60 and 61

must be preferred to any other baths of these sizes

because they are exact

replicas of the full size bath, scaled down to small

Atlanta flat bottom helps

to prevent slipping . . .

proportions.

ensures comfort.

BILSTON FOUNDRIES LTD . BILSTON . STAFFORDSHIRE . Illustrated literature is available on request.

safe The to of

ilind ied