

THE ARCHITECTS' JOURNAL



standard contents

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

DIARY NEWS

from AN ARCHITECT'S Commonplace Book

ASTRAGAL

LETTERS

PHYSICAL PLANNING

CURRENT BUILDINGS

INFORMATION

CENTRE

Physical Planning Lighting
Structure Heating & Ventilation
Materials Questions & Answers
Acoustics & Sound Insulation

INFORMATION SHEET

SOCIETIES & INSTITUTIONS

PRICES

Architectural Appointments Wanted and Vacant

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* A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full addresses and telephone numbers, is given below. In all cases where the town is not mentioned the word LONDON is implicit in the address.

SEP 11 1946

- | | | |
|-----------|--|-------------------------------|
| AA | Architectural Association. 34/6, Bedford Square, W.C.1. | Museum 0974 |
| ABT | Association of Building Technicians. 15, Abchurch Lane, S.W.1. | Victoria 0447-8 |
| ACGB | Arts Council of Great Britain. 9, Belgrave Square, S.W.1. | Sloane 0421 |
| APRR | Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1. | Euston 2158-9 |
| ARCUK | Architects' Registration Council. 68, Portland Place, W.1. | Welbeck 9738 |
| ASB | Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1. | Welbeck 5721 |
| BC | Building Centre. 9, Conduit Street, W.1. | Mayfair 2128 |
| BCIRA | British Cast Iron Research Association. Alvechurch, Birmingham. | Redditch 716 |
| BDA | British Door Association. 25, Victoria Street, S.W.1. | Abney 5422-3 |
| BIA | British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. | Glasgow Central 2891 |
| BIAE | British Institute of Adult Education. 29, Tavistock Square, W.C.1. | Euston 5385 |
| BINC | Building Industries National Council. 11, Weymouth Street, W.1. | Langham 2785 |
| BOT | Board of Trade. Millbank, S.W.1. | Whitehall 5140 |
| BRS | Building Research Station. Bucknalls Lane, Watford. | Garston 2246 |
| BSA | British Steelwork Association. Egginton House, Buckingham Gate, S.W.1. | Victoria 7301-2-3 |
| BSI | British Standards Institution. 28, Victoria Street, S.W.1. | Abney 3333 |
| CCA | Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. | Sloane 5255 |
| CID | Council of Industrial Design. Tilbury House, Petty France, S.W.1. | Whitehall 6322 |
| CPRE | Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 | |
| CSI | Chartered Surveyors' Institution. 12, Great George Street, S.W.1. | Whitehall 5322 |
| DIA | Design and Industries Association. 9, Conduit Street, W.1. | Mayfair 0477 |
| DOT | Department of Overseas Trade. 35, Old Queen Street, S.W.1. | Victoria 9040 |
| EJMA | English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1. | Regent 4448 |
| FAS | Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. | Sloane 2837 |
| FMB | Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1. | Canonbury 2041 |
| FS (Eng.) | Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1. | Sloane 2837 |
| GG | Georgian Group. 4, Hobart Place, S.W.1. | Sloane 2844 |
| HC | Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. | Whitehall 2881 |
| IAAS | Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. | Sloane 3158 |
| ICE | Institution of Civil Engineers. Great George Street, S.W.1. | Whitehall 4577 |
| IEE | Institution of Electrical Engineers. Savoy Place, W.C.2. | Temple Bar 7676 |
| IOB | Institute of Builders. 48, Bedford Square, W.C.1. | Museum 7197 |
| IRA | Institute of Registered Architects. 47, Victoria Street, S.W.1. | Abney 6172 |
| ISE | Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. | Sloane 7128-29 |
| LIDC | Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. | Whitehall 7264 |
| LMBA | London Master Builders' Association. 47, Bedford Square, W.C.1. | Museum 3767 |
| MARS | MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. | Park 7678 |
| MOA | Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. | Whitehall 3400 |
| MOE | Ministry of Education. Belgrave Square, S.W.1. | Sloane 4522 |
| MOH | Ministry of Health. Whitehall, S.W.1. | Whitehall 4300 |
| MOLNS | Ministry of Labour and National Service. St. James's Square, S.W.1. | Whitehall 6200 |
| MOS | Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. | Gerrard 6933 |
| MOT | Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. | Abney 7711 |
| MOTCP | Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1. | Whitehall 8411 |
| MOW | Ministry of Works. Lambeth Bridge House, S.E.1. | Reliance 7611 |
| NAMMC | Natural Asphalt Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1. | Abney 1010 |
| NBR | National Buildings Record. 37, Onslow Gardens, S.W.7. | Kensington 7070 |
| NFBTE | National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. | Langham 4041 |
| NFBTO | National Federation of Building Trades Operatives. 9, Rugby Chambers, Rugby Street, W.C.1. | Holborn 2770 |
| NFHS | National Federation of Housing Societies. 13, Suffolk St., S.W.1. | Whitehall 2881/2/3 |
| NT | National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. | Whitehall 0211/2 |
| PEP | Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. | Whitehall 7245 |
| RCA | Reinforced Concrete Association. 91, Petty France, S.W.1. | Whitehall 9936 |
| RIBA | Royal Institute of British Architects. 66, Portland Place, W.1. | Welbeck 5721 |
| RS | Royal Society. Burlington House, Piccadilly, W.1. | Regent 3335 |
| RSA | Royal Society of Arts. 6, John Adam Street, W.C.2. | Temple Bar 8274 |
| SFMA | School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. | Chancery 5313 |
| SAC | Scientific Advisory Committee, Ministry of Works, Lambeth Bridge House, Albert Embankment, S.E.1. | Reliance 7611, Extension 1450 |
| SIA | Society of Industrial Artists. 20, Wellfield Avenue, N.10. | Tudor 7027 |
| SPAB | Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. | Holborn 2646 |
| TCPA | Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. | Temple Bar 5006 |
| TDA | Timber Development Association. 75, Cannon Street, E.C.4. | City 6147 |
| TPI | Town Planning Institute. 18, Ashley Place, S.W.1. | Victoria 8815 |

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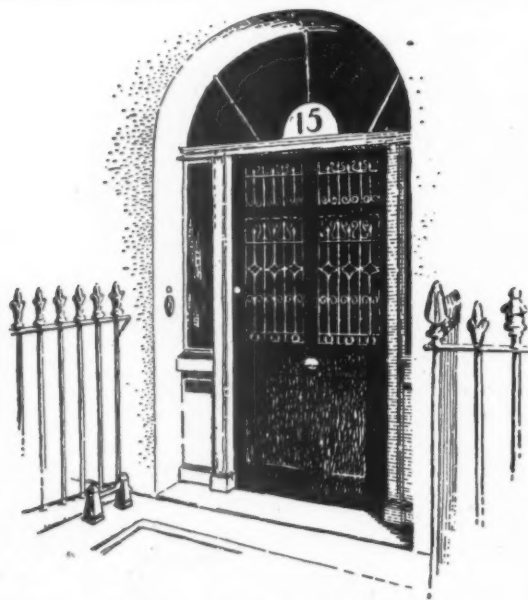


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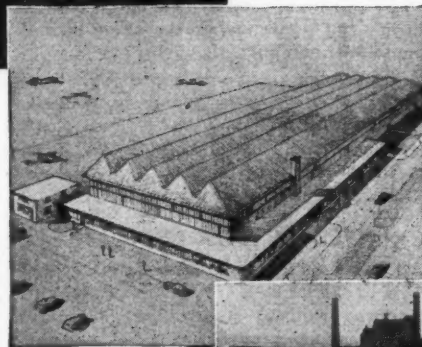
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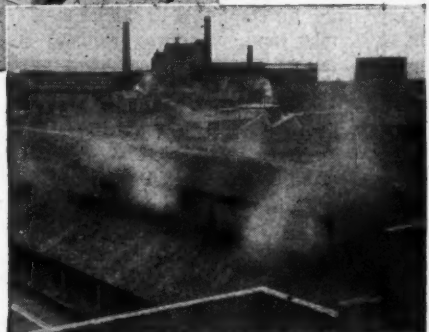
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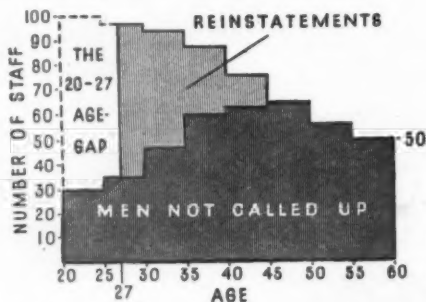
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THE SEVEN-YEAR GAP

Shortage of promising young men

FOR seven years, business and industry have been unable to recruit young men to train for responsible positions. Nearly all have been going into the Services.

This absence of "new blood" may not yet be keenly felt. Many firms find their immediate needs met by reinstated staff. When they say, "No Vacancies," they believe what they say.



In this chart, the whole area represents the male administrative, executive and managerial staff of a typical engineering firm before the war, analysed by age-groups. The white portion is the present 20-27 gap that must be filled to restore the balance.

Yet, as the diagram shows, a gap remains in the 20-27 age-group—a gap that older men cannot fill. This hiatus in the ranks of salaried staff will prove dangerous to the future management of any business.

In ten years, it will mean a shortage of responsible men between 30 and 37; in twenty years, between 40 and 47. The time to fill this gap is now, before the young men of ability and promise drift into blind-alley jobs.

The 20-27's are beginning to come out of the Forces in rapidly increasing numbers. They are more fortunate than their fathers were after World War I. This time, the Government has set up a nation-wide appointments service to prevent the waste of talents and capabilities needed by business and industry.

A ROSTER OF ABLE MEN

Thirteen Regional Appointments Offices are building up, for employers to call upon, a great national roster of men (and, of course, women) of promise in different fields. As the 20-27's come out of the Services, all of the requisite standard who apply are interviewed, classified and registered. Those who are undecided about their careers are "screened" to discover special aptitudes, by a method successfully tested on a large group of B.A.O.R. "volunteers."

Thus, men are matched to jobs. Employers can draw upon the whole country, if need be, for the right men

to fill the 20-27 age-gap. And they are saved endless fruitless interviews, since only likely candidates are put forward.

LETTERS OF APPRECIATION

Since VE-day, more than 30,000 responsible posts have been successfully filled; and hundreds of appreciative letters have been received from employers and applicants alike. A typical example, from an engineering firm in the Midlands:

"May I take this opportunity of thanking you and your staff for the help you have so generously given to me in my rather difficult task. The high standard of all the applicants showed how careful had been their selection, thus saving considerable time over useless interviews."

To make sure of securing the most promising men, and to learn about the Government Training Schemes which increase their value, employers are invited to get in touch with their nearest Appointments Office. Offices are established in the following towns—

LONDON: 1-6 Tavistock Square, W.C.1

CAMBRIDGE: 5 Salisbury Villas, Station Road

READING: 23 Valpy Street

BRISTOL: Lyndale Hotel, Berkeley Square

BIRMINGHAM: 239 Broad Street

NOTTINGHAM: Commerce Chambers, Upper Parliament Street

LEEDS: Greek Street Chambers, Greek Street

MANCHESTER: Commercial Chambers, 47 Corporation Street

LIVERPOOL: Cotton Exchange, Bixteth Street

NEWCASTLE-ON-TYNE: 153 Barras Bridge

EDINBURGH: 5 Rothesay Terrace

GLASGOW: 450 Sauchiehall Street

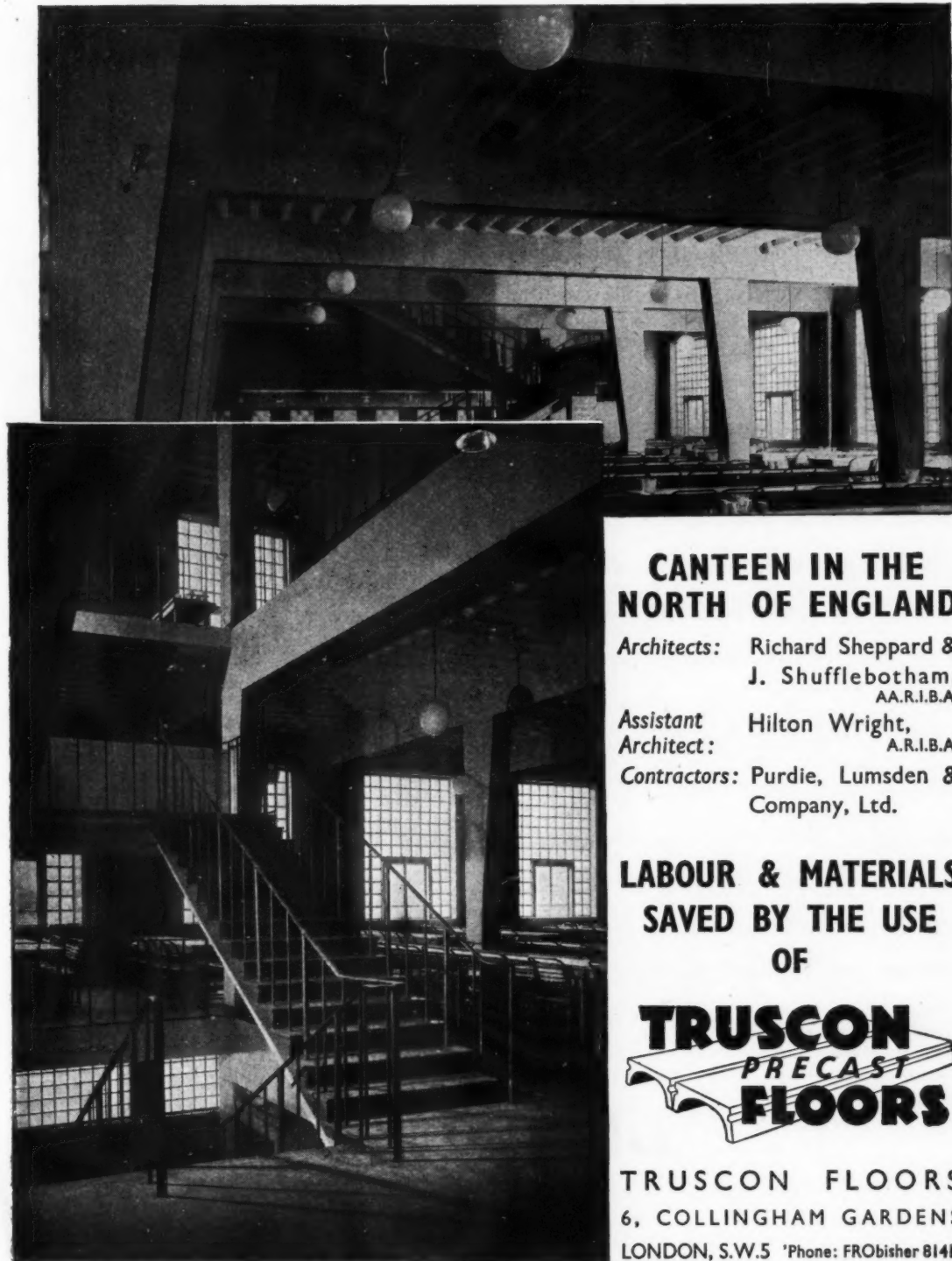
CARDIFF: 8 Cathedral Road

TWO TRAINING SCHEMES

To help selected men and women from the Forces or other war service to make up for lost time in acquiring professional or business skills, two training schemes of direct interest to employers are in operation:

Business Training Scheme: A 3-months' course in the general structure, practice and administration of business, followed by practical training in a particular firm. Financial assistance where necessary.

Further Education and Training Scheme: Financial assistance in completing higher professional or technical studies interrupted by war service.



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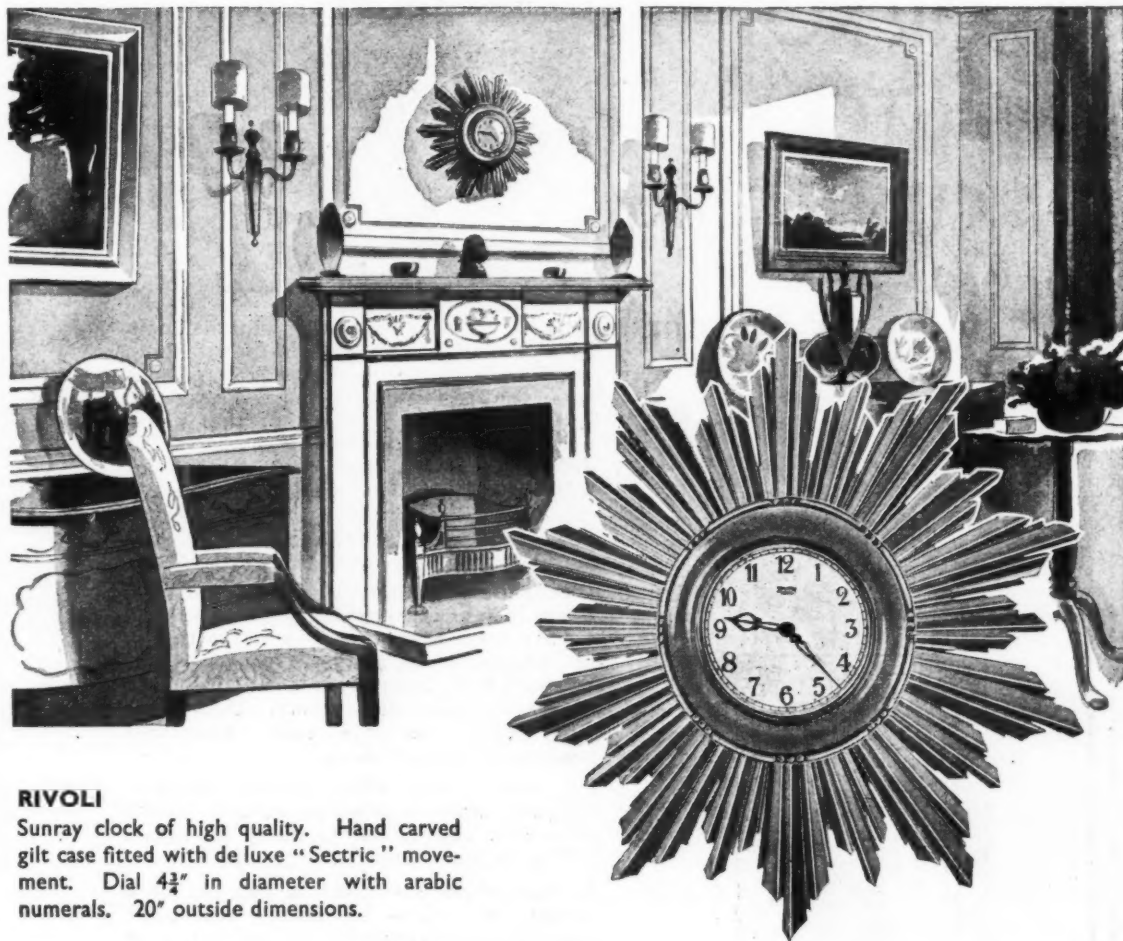
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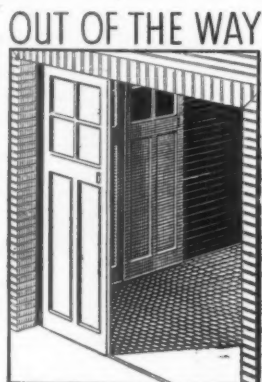
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POTTERY THROUGH THE AGES : NO. 1



THE BEGINNINGS OF POTTERY

The story of pottery is older than the recorded history of mankind. Fragments of ancient ware, unearthed after thousands of years, are often the only evidence left of bygone civilisations. From their texture and shape, style of decoration and mode of firing, it is possible to assess the stage of culture of those who made them.

It is unlikely that the craft of the potter began in any one centre and spread thence over the world. Every child delights in forming shapes from clay and mud and, in the childhood of the human race, pottery-making probably developed spontaneously in many widely-separated regions. Some

specimens of earthenware found in the Near East are believed by experts to be at least 8,000 years old.

In the Neolithic period of human culture—or late Stone Age—primitive pottery drinking vessels and containers for food were roughly shaped by hand with little attempt at decoration other than simple patterns of lines, dots and circles, scratched with a stick or finger nail. In some districts, a twisted cord was also used to produce a pattern in the soft clay. Markings on certain Neolithic wares suggest that plaited osiers or reeds were used to give the outline of the object being moulded. Many of the shapes were suggested by natural objects—gourds and other

fruits, horns and skulls. Hand-formed vessels, cinerary urns and drinking cups, crudely fired, have been found in considerable numbers in the ancient barrows and tombs of pre-Roman Britain.

The earliest wares were probably hardened by exposure in the sun, just as bricks are still "sun-baked" in certain parts of the East to this day. The use of wood fires for baking was a far-reaching advance in making pottery, greatly increasing its durability and usefulness.

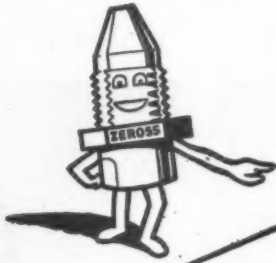
From such simple beginnings has developed modern pottery-making—a unique union of craftsmanship, art and science.



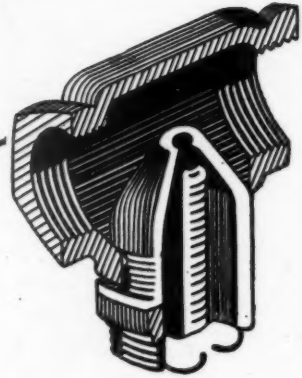
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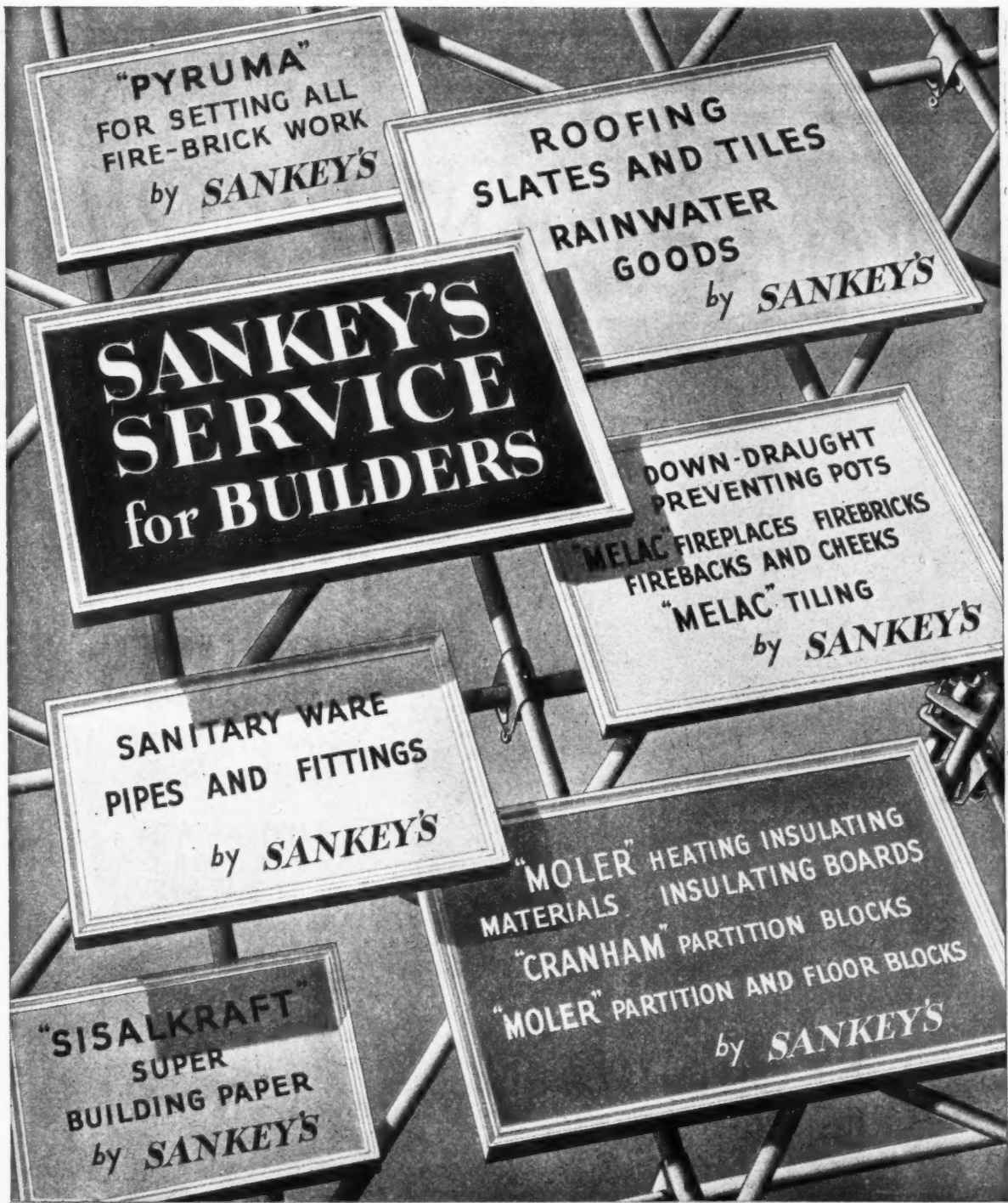
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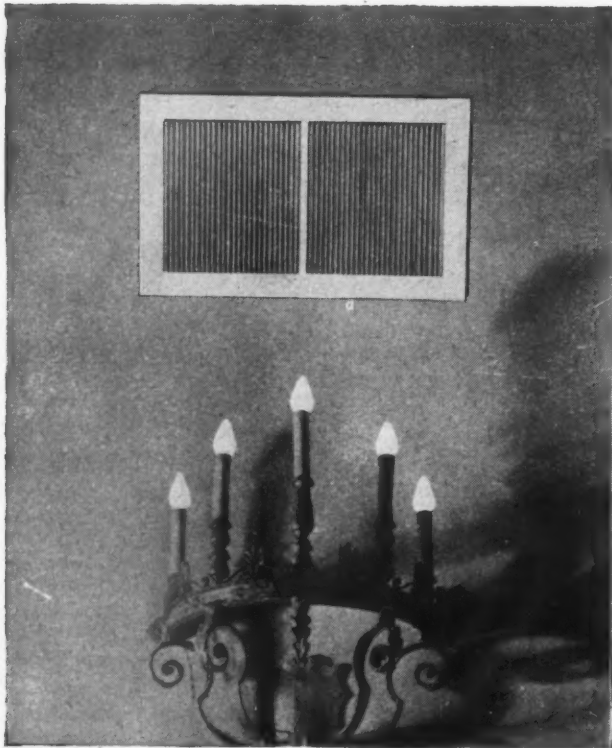
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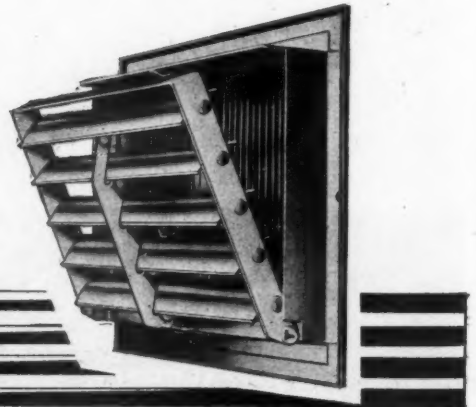
REGISTERS & GRILLES

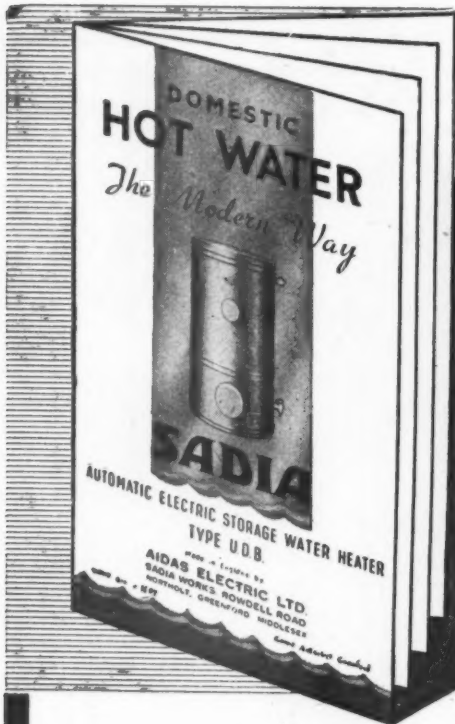
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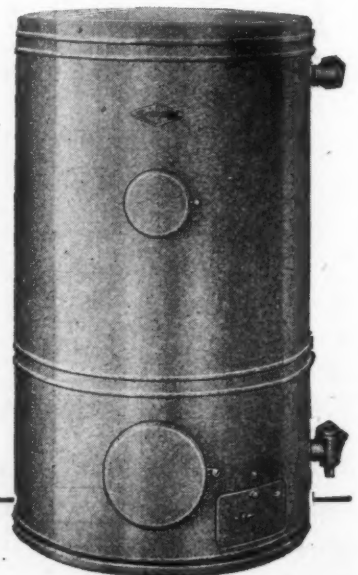
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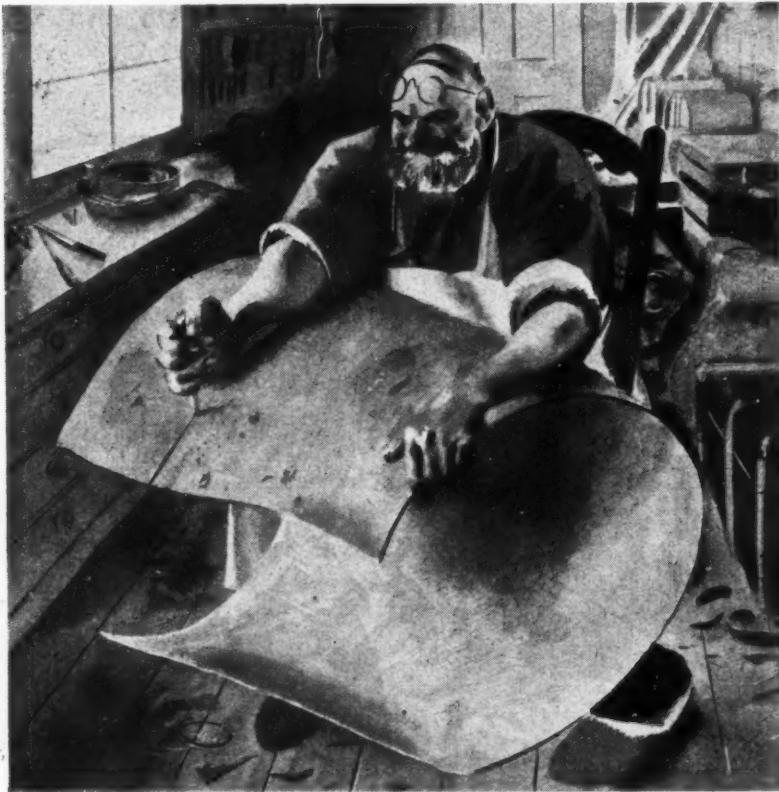
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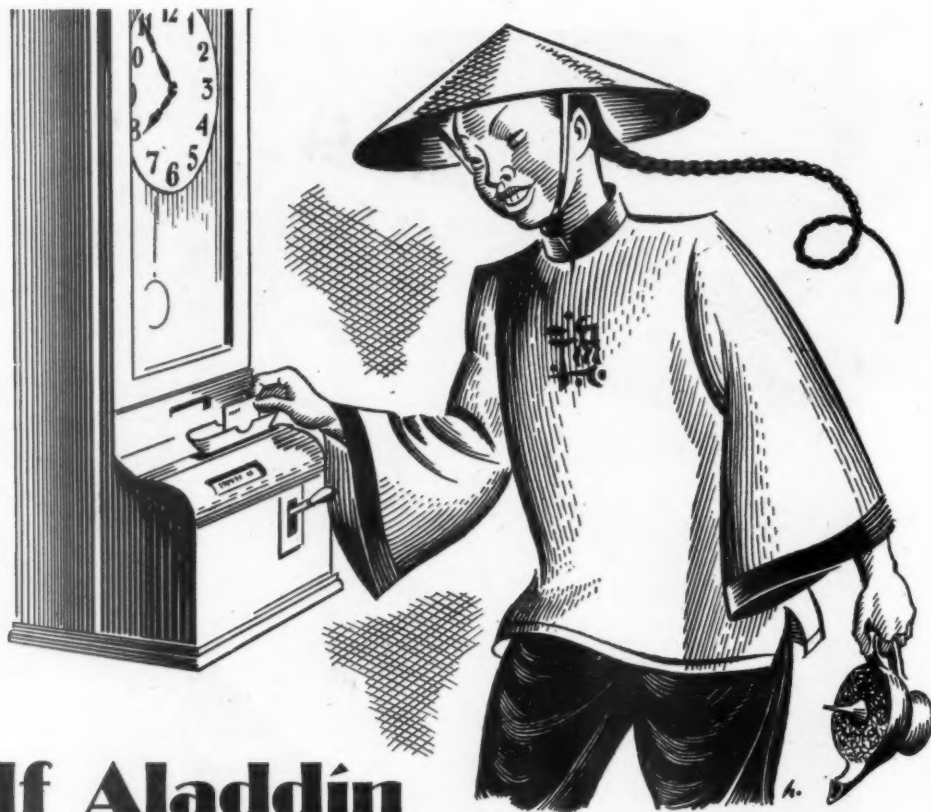


NOTHING LIKE LEATHER

CHEMICALLY this is not true. Leather is a protein and so are wool, silk, hair, nail and horn! The manufacture of leather is a highly-skilled and complex craft which has developed slowly but surely through centuries of trial and error. The hides must go through many treatments before being tanned. Tanning converts the soft skin into durable leather, but it is not the end. The leather must be brought to the required degree of pliability and finally dyed or finished to obtain the wide range of effects, say, between an army boot and a bright bedroom slipper, a fancy handbag and a Sam Browne belt. All these many and varied processes have been developed by the leather industry, but gradually, as the chemistry of leather has become better known, the chemist has been increasingly brought in, replacing the old agents for leather treatment, lime, animal

excreta, eggs, offal and crude fats, with standard alkalis and sulphides, pancreatic enzymes, disinfectants, purified and analysed fats, the chrome tanning process and so on. Most of all, the chemist is helping the leather manufacturer to understand the principles of his processes, to speed them up and standardise them. The excellence of British leather is universally recognised, and British chemists are among the first in the field of leather research. Professor H. R. Proctor, known affectionately as "the father of leather chemistry," led a pioneer school at Leeds University from 1890-1913 and the work he initiated has been pursued and developed all over the world. Leather remains the best material for footwear and all the white races walk in leather — in normal times! So the old saying that there is nothing like leather is still true.





If Aladdin could 'clock-in' at M.E.M

If only the wonderful lamp were at our service we could work wonders and every order for M.E.M. gear could be met overnight. But even the wonders of modern production efficiency



have their limits, especially with present day shortages, controls and restrictions. None the less, every effort is being made to improve output and an increasing stream of supplies is going out to wholesalers. They in turn are doing a grand job of work in distributing all available equipment fairly and equitably. That's a point to remember when you deal with *your* wholesaler.

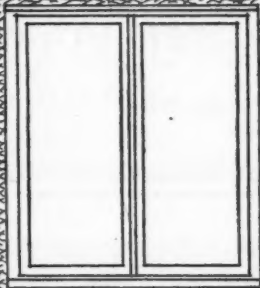
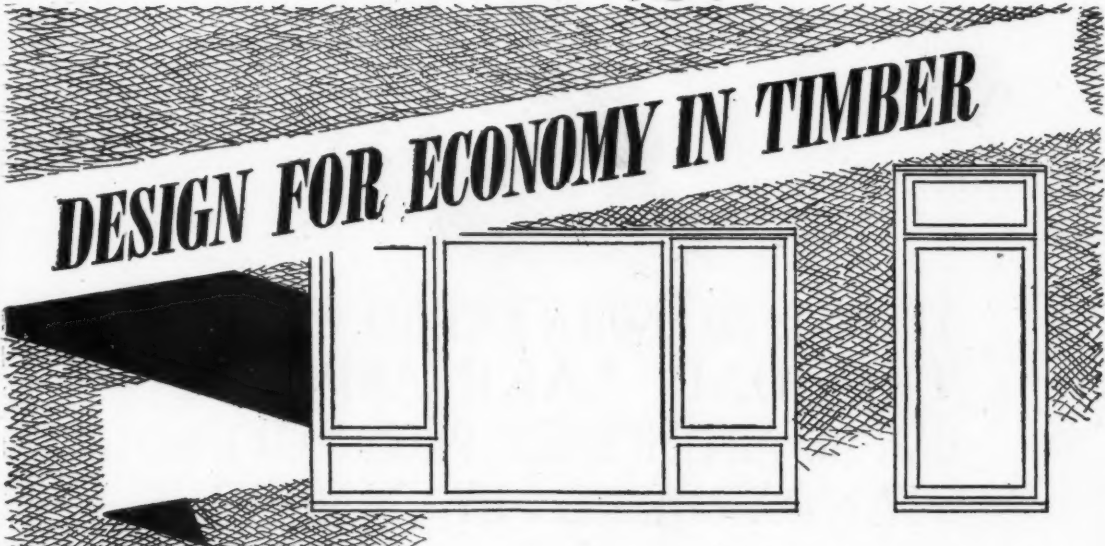


MIDLAND ELECTRIC MANUFACTURING CO. LTD., TYSELEY, BIRMINGHAM, 11
SWITCH, FUSE AND MOTOR CONTROL GEAR, ELECTRIC FIRES
AND LOCALISED LIGHTING EQUIPMENT

London Showrooms & Stores: 21-22 Rathbone Place, W.1

Manchester Showrooms & Stores: 48-50 Chapel Street, Salford, 3

DESIGN FOR ECONOMY IN TIMBER



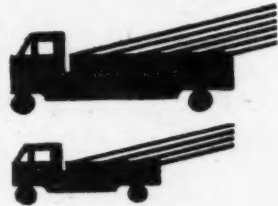
TWO standards of timber for a 1000-ft. super house—not much more than two-thirds of the pre-war average The architect or builder must be sure there is no waste, though he need not cut out any of the major fittings of wood.

There is one place where the saving has been made for him—windows.

Provided that he specifies **EJMA** windows, he will find that they total under 22 cu. ft. of timber, or only 1/15 of his allowance—an insignificant fraction.

45% REDUCTION IN TIMBER USED

Compare the EJMA window with the pre-war standard window. Improved design allows a saving of 45 per cent. in timber, with increased daylight area, ample strength, and pleasant appearance.



The sizes are co-ordinated with brickwork dimensions in order to simplify installation.



THE ENGLISH JOINERY MANUFACTURERS ASSOCIATION
 SACKVILLE HOUSE, 40 PICCADILLY, W.1 REGENT 4448 (INCORPORATED)

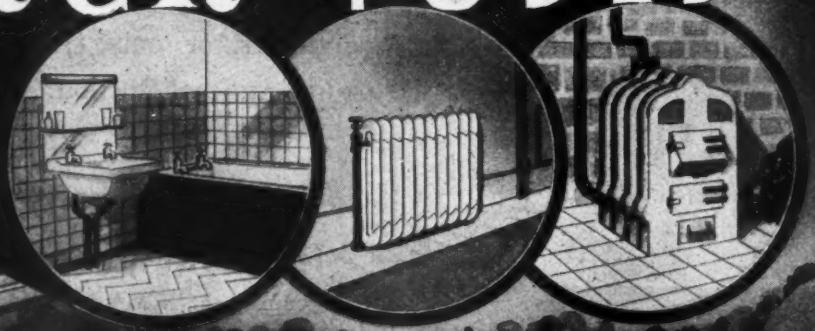
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TRINIDAD LAKE ASPHALT
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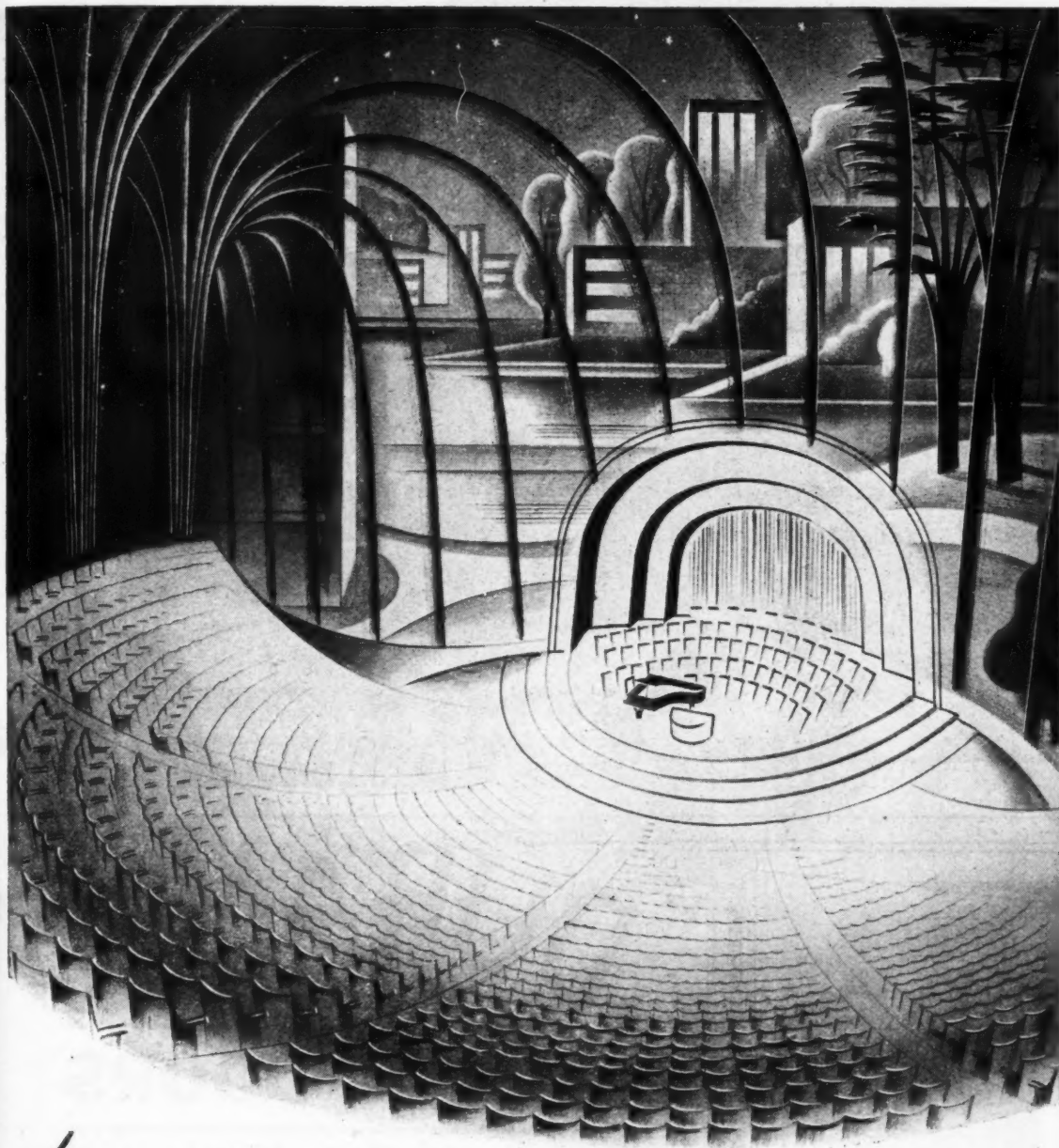
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STEEL HOUSE, TOTHILL ST., WESTMINSTER, S.W.1. Telephone: WHITEHALL 6776

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

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HEATING · PIPING · AIR CONDITIONING

THE BRIGHTSIDE FOUNDRY & ENGINEERING COMPANY LTD

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CC 18

KEX PRODUCTS

KEXACRETE

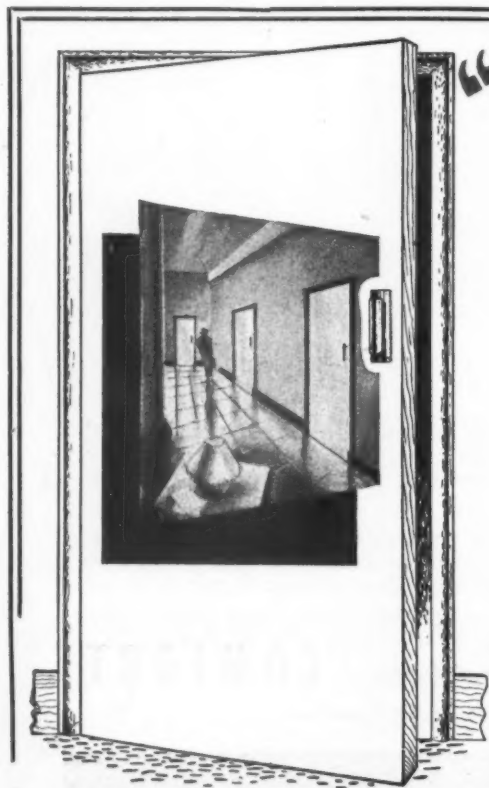
A Stable Silica Solution derived from a Silicic Ester

Kexacrete is of prime importance where the protection of floors—concrete and composition—is the first consideration. It is a hardener and preventative of dusting and should be used whenever specific forms of attack obtain, such as lactic acid in dairies; oils and acids in garages; oils, fats etc. in food factories and in general wherever increased hardness and resistance is required.

Enquiries are invited as to how Kexacrete can best serve your needs.



Kautex Plastics Ltd
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OUR PRE-WAR REPUTATION
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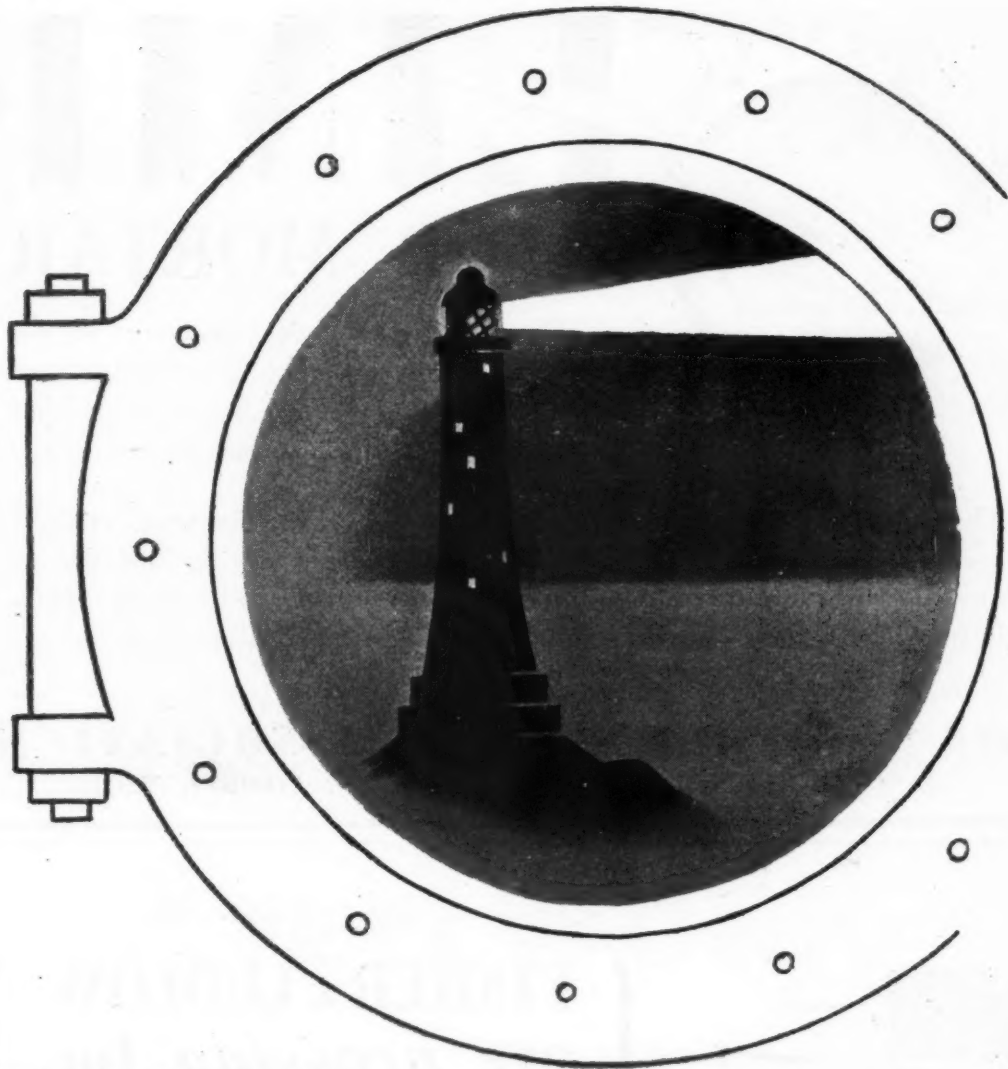
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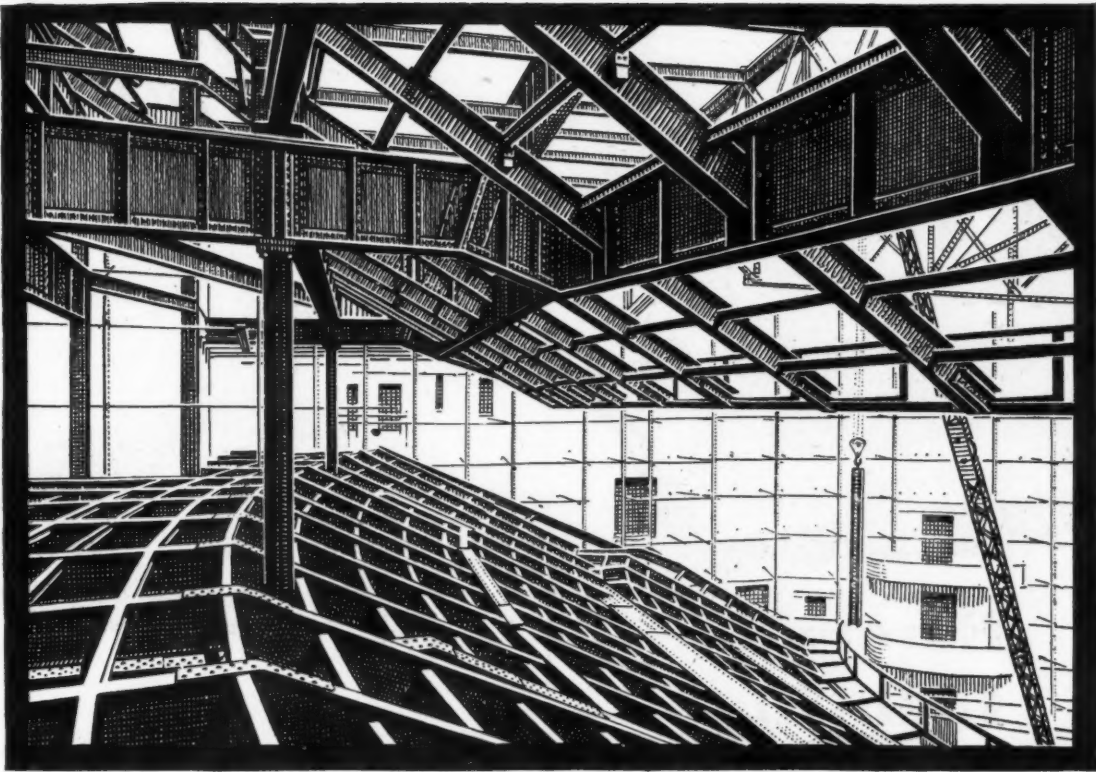
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EMERGENCY lighting is no subject for after-thoughts. It should be planned as other lighting is planned, by the architect. When your planning touches on this problem, remember Chloride. Their unrivalled knowledge of emergency lighting is always at your service. They are, moreover, the makers of Keepalite, the automatic system which uses the actual interruption of mains current to switch on the emergency lighting instantly and infallibly.

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THE AUTOMATIC EMERGENCY LIGHTING SYSTEM

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Of all the "sticky" structural jobs which the war provided, plywood took on some of the worst. For example, it stood up to the vibration of 2,000 h.p. aero engines, and defied the complex stresses set up by M.L.'s ploughing through heavy seas. Plywood's performance in roles like these surprised people; but there was more to it than just a natural fitness of the material for the job. There was a good deal of research and experiment too, which has resulted in plywood becoming almost a new material, so varied are the properties it has acquired. We have been making plywood for fifty years, and we also manufacture Plymax, the metal-faced plywood.

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A STAINES

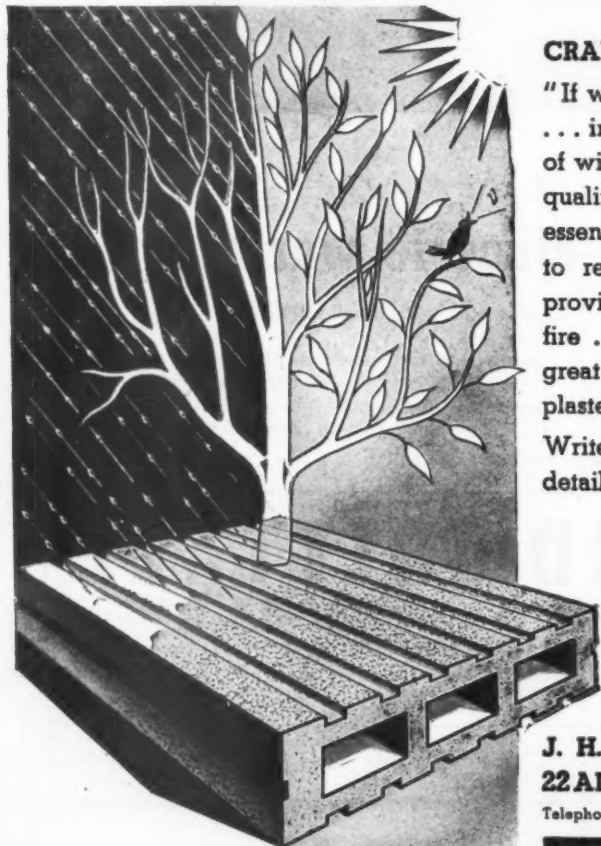
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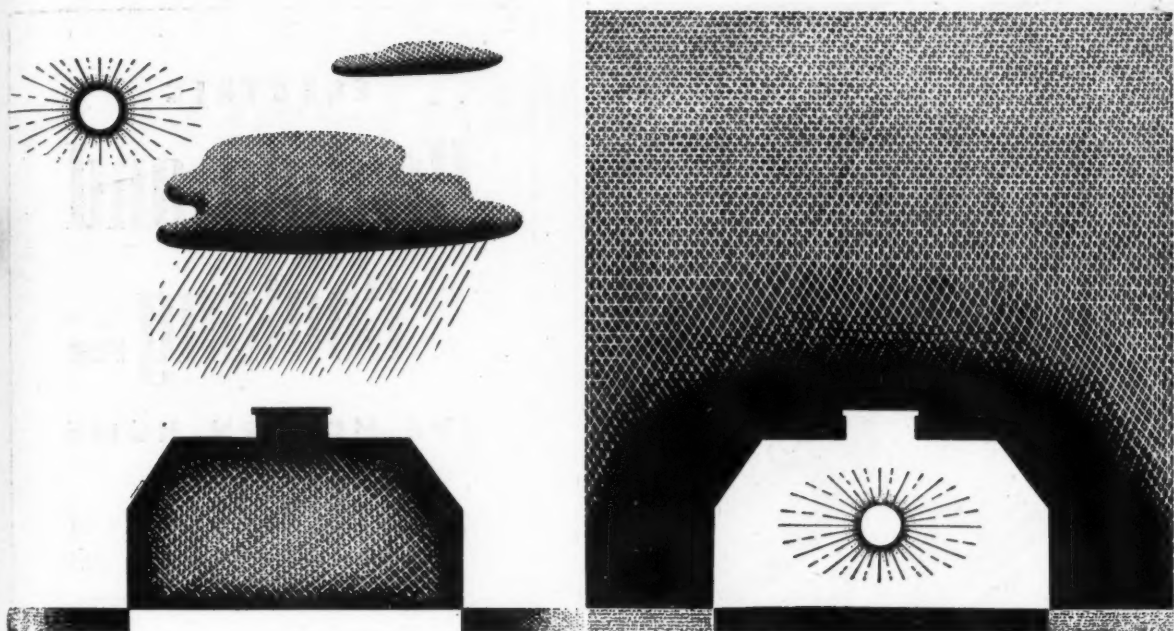
Write to-day (enclosing 1d. stamp) for full technical details.

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Weather control, like charity, begins at home. It began indeed many centuries ago with four walls to stop the wind and a roof to hold back the rain.

The introduction of a fire brought with it the problem of even distribution of its warmth—a problem which has been progressively reduced as new methods of heating were invented. In recent years modern scientific knowledge has been brought to bear on this and allied problems and, as might be expected from a firm with their record of achievement, Bratt Colbran Limited are well to the fore in the new developments of room heating. Their forthcoming post-war models will show remarkable technical advances associated with great distinction in design.

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Original patentees of Bituminous built up roofs

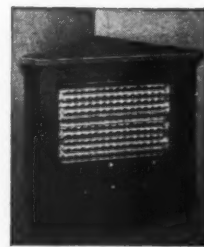
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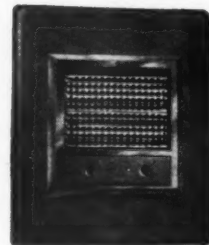
THE MODERN HOME

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



New Corner Fireplace

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



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

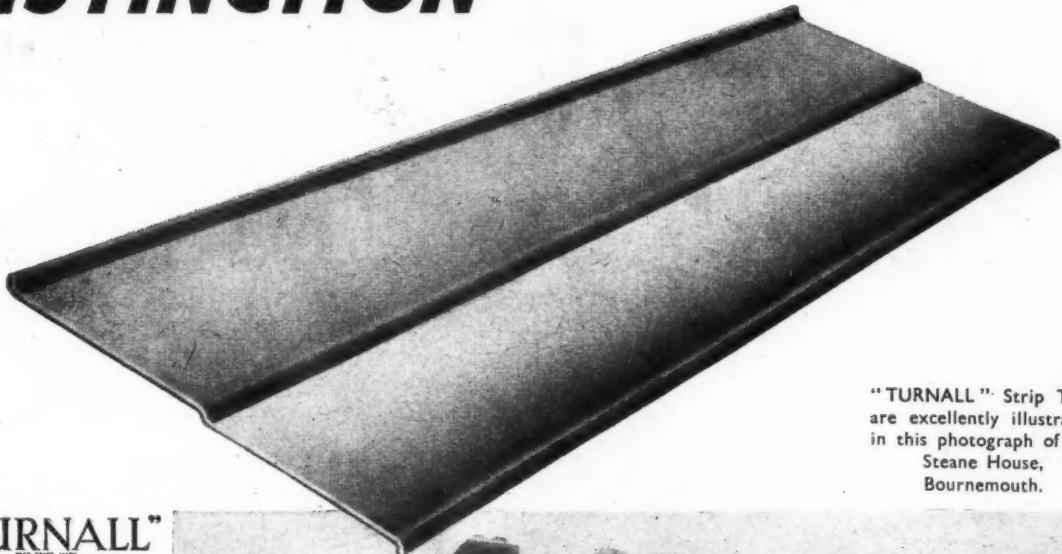
Although our present production is largely absorbed by urgent Government orders for Housing requirements, all enquiries will receive our keen and enthusiastic co-operation.

You can't beat a

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"TURNALL" Strip Tiles
are excellently illustrated
in this photograph of the
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Overall Width 2 ft. 0 in.
Weight per square 552 lbs.

FIXED DIRECT TO
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NO BATTENS OR
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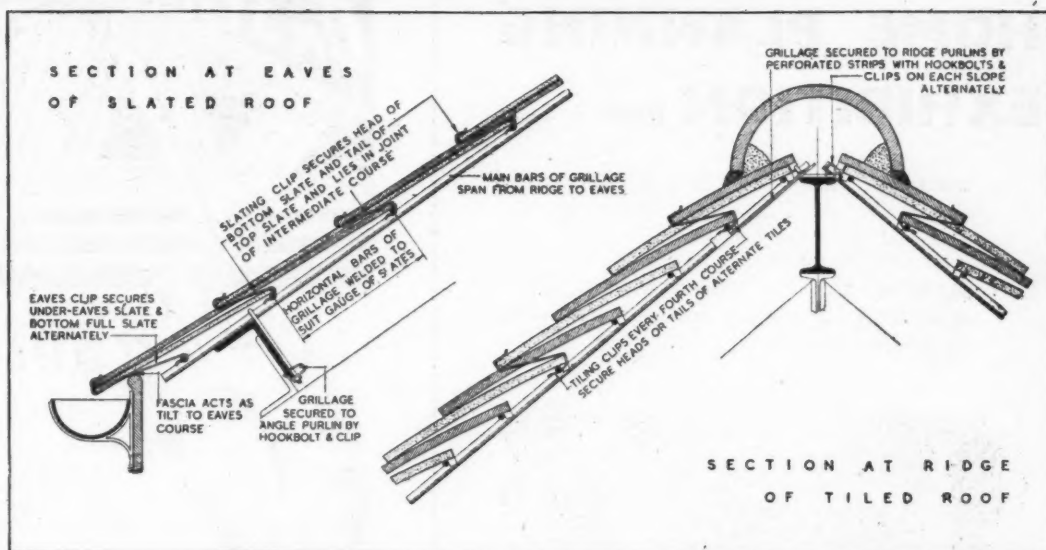
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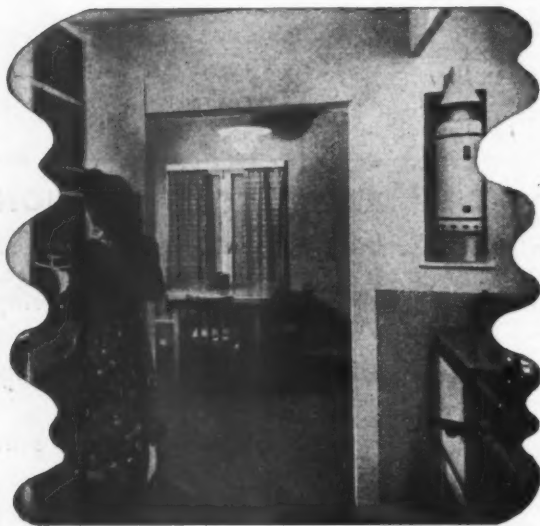
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HOME PLANNING EXHIBITION WORTH A VISIT ?

BECAUSE 'dream homes' have been barred. All equipment is in production for re-housing under Municipal Authorities' schemes.

BECAUSE it contains ideas on practical aspects of home life . . . cooking, heating, water heating, refrigeration, home laundry.



KITCHEN-DINING-RECESS WITH ECONOMICAL PLANNED HEAT SERVICE.

BECAUSE it is based on the findings of a committee set up by the Gas Industry in 1943 and assisted by an Architectural consultant working in this country, in America and elsewhere. Some units are Government inspired.

BECAUSE it is designed for post-war needs and pockets, brings pre-war luxury ideas within the reach of the lower income groups.

BECAUSE hundreds of thousands of housewives have seen the Exhibition and are anxious to benefit from it.

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'Bulldog' Connectors have solved the basic problem of Timber Construction. They enable simple joints to be made, in which the load is spread over almost the entire cross section of the wood.

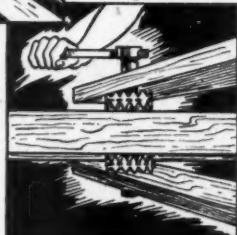
In the past much larger sections of timber were needed in order to make the joints strong enough to carry the load.

Now, Timber Construction can be placed on a sound engineering basis, the consequent increase in efficiency bringing outstanding advantages.

and Save

TIMBER TIME and MONEY

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



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

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

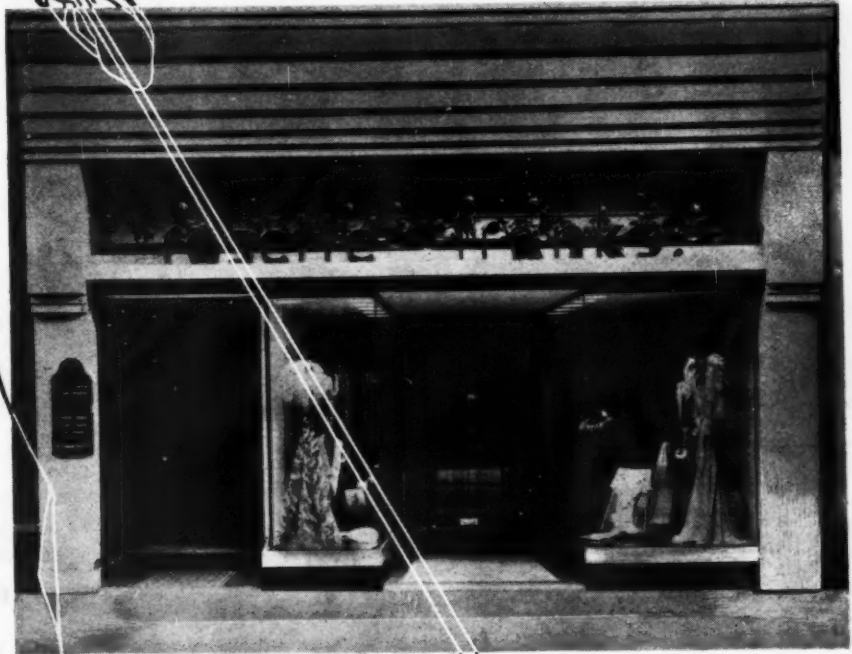
'Bulldog' Timber Connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.

TECHNICAL ADVICE AND FULL DETAILS AVAILABLE ON REQUEST

"BULLDOG"
Timber Connectors

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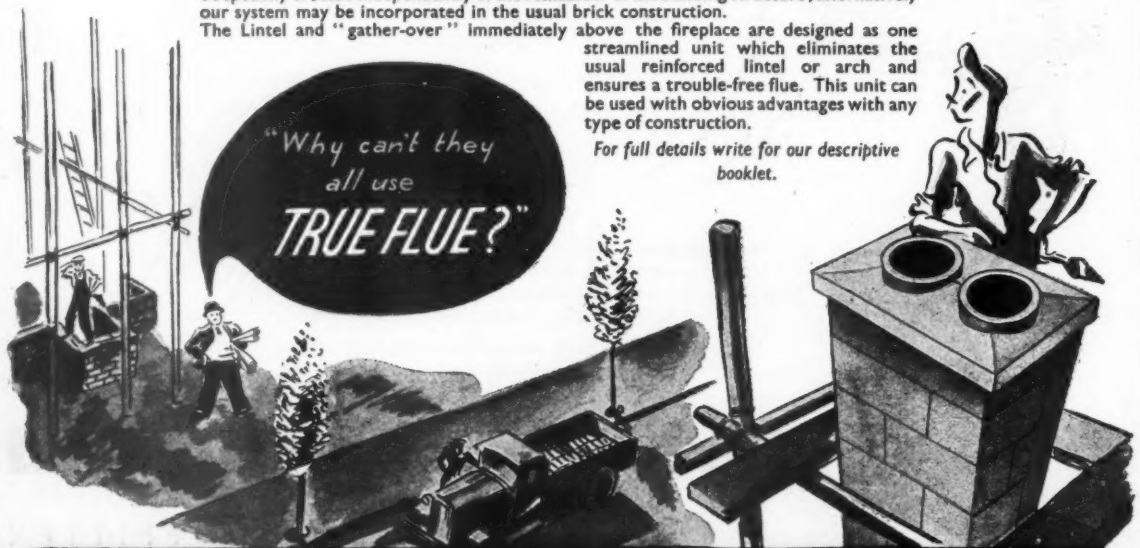
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The TRUE-FLUE patented method of constructing domestic flues of correct design with the minimum of labour. The chimney breasts may be constructed with original form of concrete block which can be speedily erected independently of the remainder of the building structure; alternatively our system may be incorporated in the usual brick construction.

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For full details write for our descriptive booklet.



TRUE FLUE Ltd. CARLISLE HOUSE, 8 SOUTHAMPTON ROW, LONDON, W.C.1. Phone: CHANCERY 8133

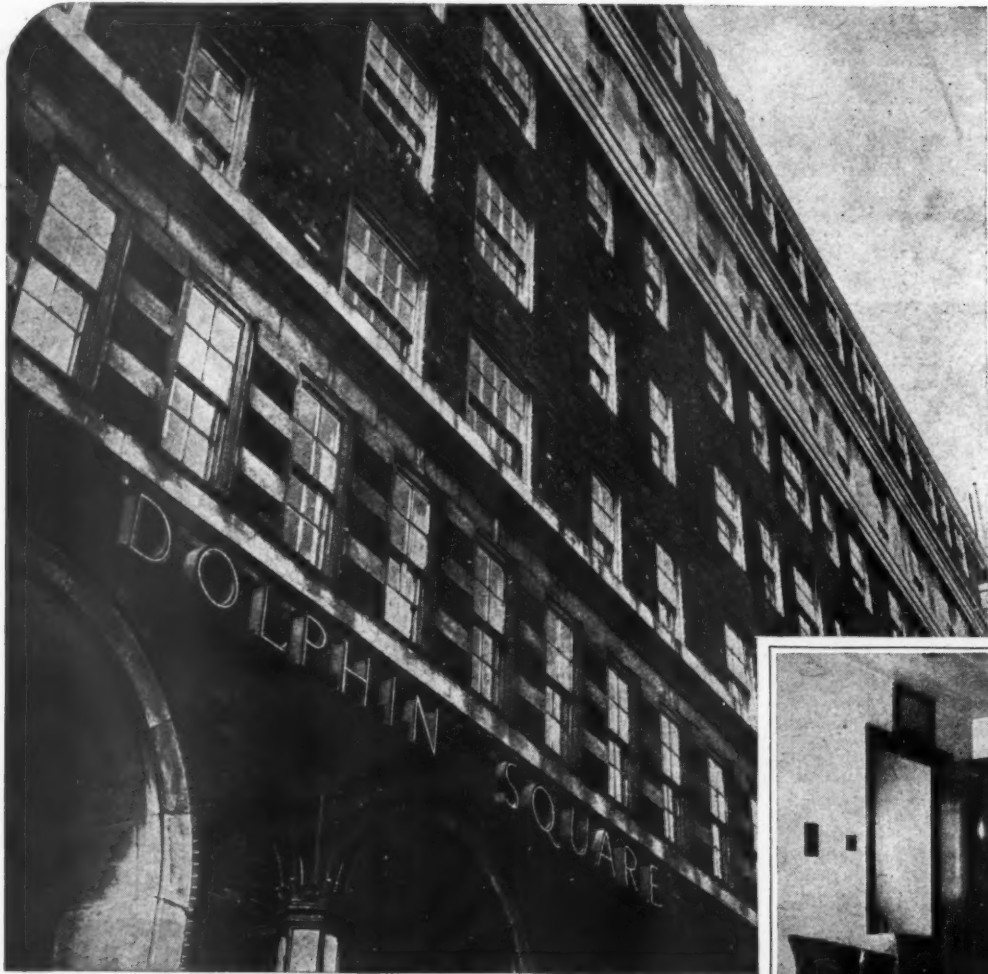
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FOR E sor, the HAL B Council HAS ning. Congre the Rt. Town be disc of N Plans; Centre ing Ec of Citi the Co arrang the N Midlan tion f Suffolk

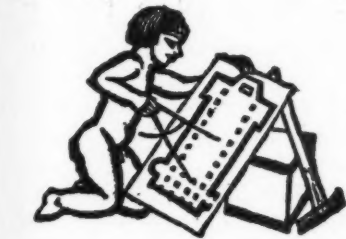
LON St Agency CAA.) 9.30 a. Summ Paintin Galler W.1.

In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw materials now in short supply, are not necessarily available for export.

NEWS

THURSDAY, August 22, 1946
No. 2691 VOL. 104

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DIARY FOR AUGUST SEPTEMBER AND OCTOBER

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

BATH. *Recording Britain, South and West.* At Victoria Art Gallery and Municipal Library. (Sponsor, the Arts Council.) AUG. 22-24

BOOTLE. *Recording Britain, North and Midlands.* At the Art Gallery. (Sponsor, the Arts Council.) AUG. 22-31

BOURNVILLE. "News Chronicle" *Knutsford Exhibition.* At the Schools, Linden Road, Birmingham, 30. (Sponsor, Bournville Village Trust.) 10.30 a.m. till 7 p.m. AUG. 22-SEPT. 4

DERBY. *The Engineer in British Life.* At the Museum and Art Gallery. (Sponsor, the Arts Council.) AUG. 22-24

DONCASTER. *London Seen by French Painters.* At the Art Gallery and Museum. (Sponsor, the Arts Council.) AUG. 22-25

EXETER. *Summer Course on USSR.* At Hope Hall, Exeter University. To be opened by Mme. Gousev. Mme. Gamazina, Principal of the Soviet School in London, and other Soviet visitors will attend. Cost £5-10-0 for week. (Sponsor, SCR.) AUG. 22-24

FORFAR. *Plans for an Art Centre.* Exhibition. At Meffan Institute. (Sponsor, the Arts Council.) AUG. 22-23

HALIFAX. *History of Photography.* At Bankfield Museum. (Sponsor, the Arts Council.) AUG. 22-28

HASTINGS. *XVIII International Congress for Housing and Town Planning.* At the White Rock Pavilion. The Congress and exhibition will be opened by the Rt. Hon. Lewis Silkin, M.P., Minister of Town and Country Planning. Subjects to be discussed include *Replanning the Centres of New Cities—Some Examples of New Plans; Housing Technique; Replanning the Centres of Cities—Decentralization; Housing Economics; and Replanning the Centres of Cities—Implementing the Plans.* During the Conference local tours and visits will be arranged and after the Conference tours to the North of England, the West and the Midlands. (Sponsor, International Federation for Housing and Town Planning, 13, Suffolk Street, Haymarket, London, S.W.1.) OCT. 7-12

LONDON. *Summer Show of Sacred Art Subjects.* At the Church Artists' Agency, 25, Ebury Street, S.W.1. (Sponsor, C.A.A.) 9.30 a.m. to 5.30 p.m. Saturdays, 9.30 a.m. to 12.30 p.m. AUG.

Summer Exhibition of French and English Paintings, Drawings, Prints. At Redfern Gallery, 20, Cork Street, Burlington Gardens, W.1. AUG. 22-SEPT. 28

Swiss Planning and Building Exhibition. At the RIBA, 66, Portland Place, W.1. Organized with the co-operation of the foremost architects and associations in Switzerland. Building for work, building for recreation, housing, town and country planning, schools and hospitals are among the subjects to be covered. Other features will be the preservation of old and historic buildings and the countryside, and the re-planning of winter sports resorts, for which an extensive programme has already been started. How Switzerland makes the most of her landscape will be shown in a series of photographs. SEPT. 19-OCT. 26

Two-Day Conference on Industrial Design. At Central Hall, Westminster, S.W.1. This is the first of a series of conferences which the Council of Industrial Design propose to hold in association with the *Britain Can Make It* Exhibition. Papers to be delivered at the conference will discuss the designer's place in industry, the design of machinery, design and research, and design as an ally in exports. Delegates will include designers and industrialists. Conference arrangements are in the hands of the Conference Secretary, Council of Industrial Design, Tilbury House, Petty France, S.W.1. (Sponsor, Council of Industrial Design and the Federation of British Industries.) SEPT. 26-27

PARIS. *International Technical Congress.* Among the delegates from Great Britain will be Sir Patrick Abercrombie, President, International Reunion of Architects, and Sir Percy Thomas. SEPT. 16-21

SALISBURY. *Plans for an Arts Centre.* At the Arts Theatre: 4.30 p.m. to 7 p.m. (Sponsor, the Arts Council.) AUG. 26-31

SOUTHAMPTON. *History of the British Playhouse.* At the Art Gallery, Civic Centre. (Sponsor, the Arts Council.) AUG. 22-SEPT. 7

SOUTHPORT. *Theatre Guild.* At the Little Theatre. (Sponsor, the Arts Council.) AUG. 22-28

STOURPORT-ON-SEVERN. *Regional Building in the United States.* At No. 6 Formation College. (Sponsor, the Arts Council.) AUG. 22-27

WAKEFIELD. *Furnished Exhibition House.* At Cyprus Mount, Newton Bar. (Sponsor, the Arts Council.) AUG. 22-26

WIGAN. *Plans for an Arts Centre.* (Sponsor, the Arts Council.) AUG. 22-SEPT. 2

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

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

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

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

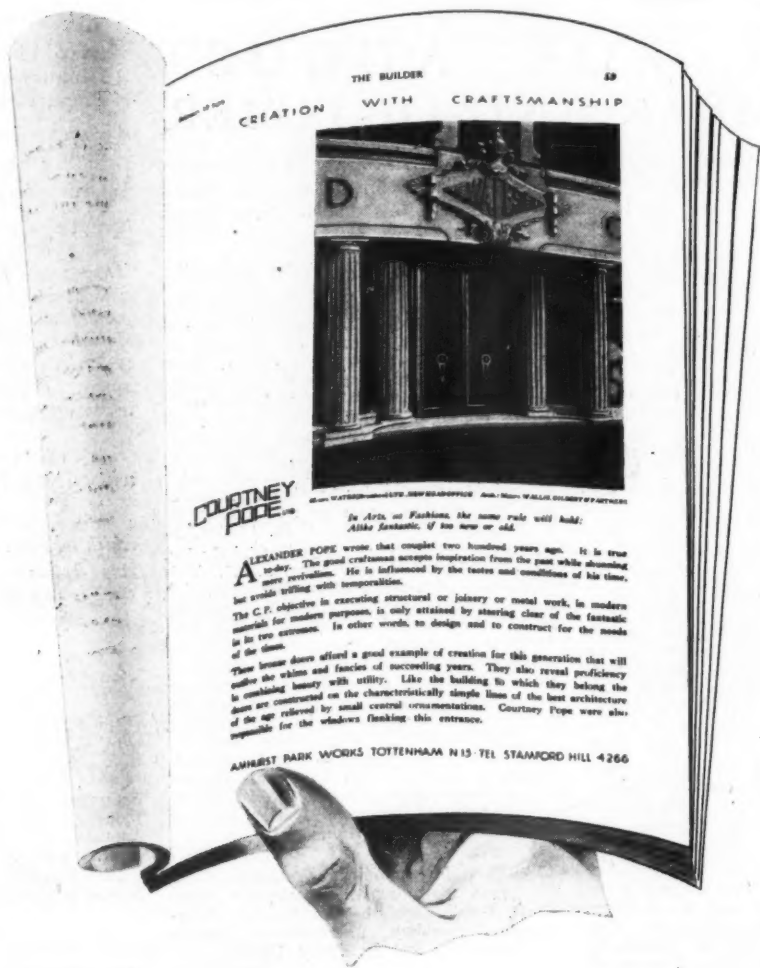
The following appointments have been made in the ESSEX COUNTY ARCHITECTS' DEPARTMENT:

Sectional Assistant Architects: A. W. Cooper, A.R.I.B.A., N. St. C. Fletcher, A.R.I.B.A., J. Nicholls, A.R.I.B.A., W. C. B. Smith, A.R.I.B.A., E. F. Wilson, A.R.I.B.A. Chief Building Surveyor: Clifford Oates, R.I.B.A. Building Surveyors' Diploma.

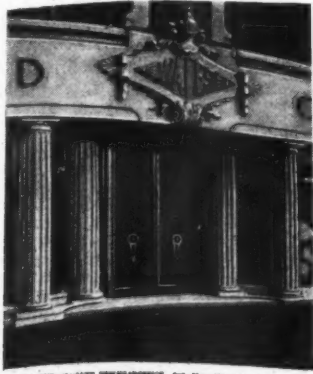
For about five weeks, commencing on August 27, about 10,000 SURPLUS MILITARY VEHICLES ARE TO BE SOLD at Borden, Hants.

The vehicles, to be auctioneered by Messrs. Goddard & Smith, range from jeeps, mobile and equipped workshops, ambulances, 15 cwt., 30 cwt., and 3-ton trucks, with all kinds of bodies from box vans to tipper and breakdown lorries. There are not many private cars in evidence, as many of these have been resold to their manufacturers in pursuance of the Government policy, although there are some private cars on offer and about 600 jeeps. Many vehicles are equipped with spare wheels and tool kits, and many of the lorries have actually motored less than 200 miles. There are also fully equipped workshop wagons, complete with lathes, drills and generators.

WHEN CREATION WITH CRAFTSMANSHIP IS POSSIBLE AGAIN



THE BUILDER 49
CREATION WITH CRAFTSMANSHIP



COURTNEY POPE

*In Arts, as in Fashions, the same rule will hold:
Alike fantastic, if too new or odd.*

ALEXANDER POPE wrote that couplet two hundred years ago. It is true to-day. The great craftsman accepts inspiration from the past while absorbing more revolution. He is influenced by the tastes and conditions of his time, but avoids falling with temporalism. The C.P. objective in executing structural or joinery or metal work, in modern materials for modern purposes, is only attained by steering clear of the fantastic in its own execution. In other words, to design and to construct for the needs of the client. These houses have offered a good example of creation for this generation that will outlive the whims and fancies of succeeding years. They also reveal proficiency in combining luxury with utility. Like the building to which they belong, the doors are constructed on the characteristically simple lines of the best architecture of the age relieved by small central ornamentations. Courtney Pope were also responsible for the windows flanking this entrance.

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COURTNEY, POPE LTD.

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From AN ARCHITECT'S *Commonplace Book*

IN PRAISE OF A CITY PRECINCT. [From The Sketch Book of Geoffrey Crayon, Gent by Washington Irving.] I had been buffeting for some time against the current of population setting through Fleet Street. The warm weather had unstrung my nerves, and made me sensitive to every jar and jostle and discordant sound. The flesh was weary, the spirit faint, and I was getting out of humour with the bustling busy throng through which I had to struggle, when in a fit of desperation I tore my way through the crowd, plunged into a by-lane, and after passing through several obscure nooks and angles, emerged into a quaint and quiet court with a grass-plot in the centre, overhung by elms, and kept perpetually fresh and green by a fountain with its sparkling jet of water. A student with book in hand was seated on a stone bench, partly reading, partly meditating on the movements of two or three trim nursery-maids with their infant charges. I was like an Arab who had suddenly come upon an oasis amid the panting sterility of the desert. By degrees the quiet and coolness of the place soothed my nerves and refreshed my spirit. I pursued my walk, and came, hard by, to a very ancient chapel, with a low-browed Saxon portal of massive and rich architecture. The interior was circular and lofty, and lighted from above. Around were monumental tombs of ancient date, on which were extended the marble effigies of warriors in armour. . . . I was, in fact, in the chapel of the Knights Templars, strangely situated in the very centre of sordid traffic; and I do not know a more impressive lesson for the man of the world than thus suddenly to turn aside from the highway of busy money-seeking life, and sit down among these shadowy sepulchres, where all is twilight, dust and forgetfulness.

Ninety-four instructors are at present attending the eight-day TDA INSTRUCTOR'S COURSE AT CAMBRIDGE.

The lectures and the laboratory work are taking place in the Schools of Engineering, Agriculture and Botany. Forty-seven instructors are taking a first year's course and forty-seven are picking up the threads where they left off at Oxford last year. A special course is also being held of lectures and laboratory work selected from the first and second year programme for regional officers. By permission of the Duke of Bedford an excursion has been made to Woburn Park for the study of standing timber.

The Council of the AA announces the award of the following SCHOLARSHIPS IN ARCHITECTURE at the Architectural Association School of Architecture:

The Metal Window Senior Scholarship (presented by the British Metal Window Manufacturers' Association, Ltd.) (value £50 p.a.): John D. Welch, of Cosham, Portsmouth, Hants. The British Plywoods Scholarship (presented by the Association of British Plywood Manufacturers) (value £50 p.a.): Lewis E. Martin, of Chingford, London, E.4.

★

The Minister of Town and Country Planning (Mr. Lewis Silkin) received representatives of HEMEL HEMPSTEAD Town Council and discussed with them proposals for the extension of the town from its present population of about 20,000 to a town of 60,000 inhabitants.

The Minister of Town and Country Planning (Mr. Lewis Silkin) has received from the North-Eastern Regional Advisory Committee an invitation to appoint a consultant to prepare a Survey and Outline Plan for the North-Eastern Development Area. The

Plan will be prepared in the light of the Distribution of Industry Act, which *inter alia* enables the Government to assist in the provision for the needs of the area in respect of basic services, including transport, power, housing, health, and other services. This will undoubtedly lead to changes affecting the area considerably, and it is desirable that such changes should conform with a general physical plan for the region based on a comprehensive survey of all the problems involved. The Minister feels that the important and difficult task of preparing this plan is one calling for wide and ripe experience and also raising many novel issues, and after consultation with the committee he has appointed Mr. G. I. Pepler, C.B., P.P.T.P.I., F.S.I., HON. A.R.I.B.A., and Mr. P. W. Macfarlane, A.M.T.P.I., P.A.S.I., to undertake the work. Mr. Pepler is at present his Chief Technical Adviser and would not in the ordinary course have been retiring from the public service at the present time, but the Minister feels that it is in the public interest to release him at once for this specially important work. Mr. Macfarlane worked under Sir Patrick Abercrombie on the plans for the County of London, Greater London, and the Clyde Valley, dealing particularly with the industrial aspects.

★

The War Damage Commission has issued the following notice concerning CLAIMS FOR WAR DAMAGE REPAIRS.

The War Damage Commission draws the attention of claimants and their builders to the fact that large numbers of claims for payment in respect of repairs to war damage to land and buildings are now being received without the necessary supporting documents. This is particularly the case in the London Region, and a test in one London office showed that out of 55 claims picked up at random from a reception desk 39 could not be paid because they were incomplete. No claim for payment of the cost of repairs can be paid until the essential documents are submitted. These are: (1) Form of claim (form C.2); (2) builder's certificate (form C.2.A.B.); (3) the builder's accounts, whether receipted or not, and (4) the building licence, if it has been necessary to obtain one. Failure to submit these documents together will not only result in delaying payment of the particular claim, but, by imposing unnecessary correspondence on the Commission's staff, in holding up the settlement of other claims also.



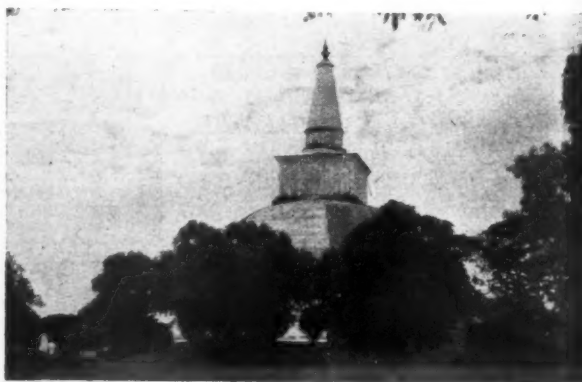
Demonstration houses at the Close, Ardingly, Sussex, built by E. H. Munmin, Ltd.; designed by L. Keir Hett, F.R.I.B.A., and planned specially for rural areas in Southern England. They are built of bricks made in the district.



No Brick Shortage Here

This Buddhist monument in the old capital of Ceylon, now half buried in the jungle, is built of solid brick without even an internal relic chamber, and rests on brick foundations 26 feet deep. It is 230 feet high, excluding the platform and spire, and it has been calculated that it contains enough bricks to build a city the size of Manchester. It is the Abhayagiri Dagaba at Anuradhapura, Ceylon, and was started by King Maha Sena, A.D. 275-292. As a comparison, the apex of the third pyramid at Gizeh would fall within the spire, and its base would come within the area bounded by the four altars at the cardinal points around the Dagaba. The vast Buddhist city of Anuradhapura was founded in the 5th century B.C. and lasted as the capital of Ceylon for over a thousand years. Its history over a period of nine centuries is recorded in the *Mahawansa*, with a completeness and accuracy denied to the relics of other comparable civilizations. The inhabitants were constantly exposed to the threat of invasion from southern India, and after many vicissitudes the capital was moved to Polonnaruwa, some 65 miles to the south-east. On the decay of the city, the rapidly growing jungle of Ceylon quickly swallowed it up. For the last 50 years systematic archaeological work has been going on and there is a great deal to be seen. The mere size of the

Dagabas, solid mountains of brick, is impressive, but it is the imagination of its architectural conceptions, and the delicacy and vitality of the carvings which make Anuradhapura so worth while seeing. The photographs were taken by Bryan Westwood, A.R.I.B.A., while on active service in the East.



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Mr. Bevan has been in virtual control of the building industry for something over a year. It is **TIME HE TOOK US INTO HIS CONFIDENCE**—Mr. E. W. Garrett.

Mr. E. W. Garrett, President of the London Master Builders' Association, who was speaking at a meeting of the Association in London, continued: During the war we got the best results when people knew what they were working for, and what their goal was. Today we are working in the dark. We don't know how many houses have to be built for local authorities before we are free to build other kinds of houses. I suggest to the Minister that we should get these houses completed far more quickly if he would tell us how many of them he wants, who is going to build the bigger and better houses for which space is being left in local authority schemes, and when builders are to be free to take on jobs for private clients. So far the only estimate of the result of the present building campaign comes from Mr. Bevan's colleague, the Minister of Works. In a statement published only a few days ago, Mr. Tomlinson said that 100,000 temporary houses and 100,000 permanent houses would be completed by the end of this year. I welcome that estimate, but it is going to take some doing to fulfil it. We are ready, but let me warn the Minister that whether these figures are realised depends far more on the man in the factory than on the builder on the site. As far as we builders and the operatives are concerned, the job can be done, but these houses will not be completed unless the necessary supplies of materials, components and fittings are forthcoming, and at the moment this side of the picture is far from bright. That is one of the causes of the frustration from which the building industry is suffering today, and I urge the Minister of Works, if he still needs any urging, to push ahead with the supply of materials, which he alone can increase, so that before the weather breaks we may all go full steam ahead without the interruptions and the consequent irritation due to the hold-ups from which we are at present suffering. Practically all the houses being built today are being built by builders. That is one of the sensible things the Government has done. But there are signs here and there that local authorities are being tempted to set up organisations to build houses by labour employed directly by their own departments. Here I should like to endorse the warning given to them by the President of the National Federation. They were the custodians of the public purse, said Mr. Forsdike, and they could readily confirm from the Ministry of Health that the majority of direct labour schemes for houses undertaken between the two wars by local authorities had proved costly failures involving large burdens on the rates. The same thing, I am satisfied, would happen today if local authorities went in to any extent for direct labour.

Plans submitted to the Ministry of Health by local authorities during the first quarter of this year included nearly 1,000 ONE-BEDROOM HOUSES, bungalows and flats.

Three-quarters of them are flats suitable for single people or old people. Of the remainder, 104 are houses and 136 bungalows. Smethwick plans to build 140 flats of this type, Wallasey 92, Mansfield 50 and Hereford 48. Altogether 47 local authorities are so far planning to build one-bedroom dwellings.

MINING OPPORTUNITY

THE Coal Industry Nationalisation Bill has received the Royal Assent and the National Coal Board is now in existence. Some little time must elapse before the Board can take up full control of the coal mining industry, but the passing of the Act and the setting up of the Board obviously mark the end of one era and the start of another. So much depends upon the activity of the industry that no one can do less than wish that the affairs of the Board will prosper.

The Board has the duty of working and getting coal and of securing the efficient development of the coal mining industry. That task will require the employment of many professions and experts beyond those directly engaged in the processes of the mine itself. The board will need engineers and lawyers, accounts and salesmen. The industry has to be re-equipped. New mines must be surveyed and opened up. Old mistakes have to be rectified and new ones avoided, and at a great many stages in the process the need will arise for the professional skill of the architect and the planner. We are at a moment when it is both opportune and urgent to consider the contribution that the profession can make to the renewal of one of our major industries.

The interest of the colliery owner in architecture and, to be frank, of the architect in the coal mining industry, have so far been largely confined to the welfare side. To some extent that is understandable. In recent years the industry has not been one in which there has been that expansion or prosperity which automatically bring with them the rebuilding of outmoded areas. Most of the new construction at the pithead has been the provision of additional buildings, baths, canteens and recreation rooms, largely financed by the funds flowing through the Miners' Welfare Commission. Out of a total of £17,617,047 spent by the Commission between 1921 and 1939, £6,335,897 (34 per cent.) went in the erection of pithead baths and £5,763,900 (31 per cent.) on recreational purposes which included a great deal of actual building. The Commission has been well served by its architect, formerly Mr. J. H. Forshaw and latterly Mr. C. G. Kemp. But their work has of necessity been the work of building additions. Very rarely was it possible (as at Clockface Colliery in Lancashire, for example) for the one design to include both the baths and canteen, paid for by the Commission, and the colliery administrative offices, paid for by the colliery company. The pithead buildings and general environment of the mine proper remain very much as they were, usually far below what they might be from the point of view of appearance and of use; often, indeed, with their thoughtless confusion of machinery, grimy slum dwellings and smoking slag heaps, mining districts remain like dark satanic scenes from Hell itself.

It is now possible to see a change in that state of affairs. It is true that the traditional habit of thought among those connected with the industry is conservative. But the oppor-

tunity that exists now is unique. For the first time there is a union between pit and pit, between the interests of owner and worker. It may take time for the cleavages to close, but unity will inevitably grow. And not only is the industry under obligation to modernise itself, its equipment and its lay-out; there is now the certainty that the capital necessary for the task can and will be found. The opportunity is a challenge to the coal mining industry. It is equally a challenge to the architectural profession as designers both of buildings and landscapes. In the past the profession might have claimed, with a certain amount of justice, that any study of the problems of lay-out and design for the above-ground area of a colliery undertaking, and its relationship to town-planning as a whole, could only result in a paper plan. Now it has no such excuse. It is for the architects and town planners to take the initiative.



The Architects' Journal

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N O T E S

&

T O P I C S

INNERS AND OUTERS

You don't have to be a railway fanatic to enjoy *Building the Inner Circle Railway* (2s. 6d. net from the *Railway Gazette*), from which the photograph opposite is reproduced. It is only one of the many fascinating pictures which illustrate this short history of a famous line, so often used as a symbol of life's futility or of perpetual motion—[you remember perhaps the radio thriller in

which a corpse deposited in an Inner Circle train was found weeks later still huddled in a corner on its never-ending circuit.]

The Inner Circle is, in fact, a railway of considerable character, and great ingenuity of construction. Built in the sixties, and designed principally by Sir John Fowler, it cost something like £186,000 per mile and involved many subsidiary activities such as the building of the Victoria Embankment, the widening of Kensington High Street and Tothill Street, excavating Parliament Square between the statues, and coping with a whole series of underground streams running into the Thames, and therefore across, and mostly above, the line.

The stations, as Mr. Julian Leathart points out in an accompanying article, were designed in the Italian Renaissance manner and are generally speaking of a reasonably high standard—the arched and prefabricated station roofs being particularly elegant and shapely. [Here's a good subject for somebody's thesis.]

Other subjects, suitable and unsuitable for holiday reading are the following:—*Architecture*, by Claude Batley, an admirably clear and concise Oxford University Press pamphlet in which the author traces the history of tradition in

Indian architecture, and discusses some of the contemporary problems faced by architects in India; *Art and Livelihood*, published by the Association of Art Institutions, in which the place of art in schools and the place of art schools in education is convincingly argued. [Slight overlap here with *CVE*—why don't they combine on this sort of thing?] *Architecture and Western Civilisation*, published by the University Press of Indiana, USA, in which the author, John U. Nef, calls for a return to human values and recounts a revealing story, to illustrate the pros and cons of permanence in architecture. The Associated Press reporting upon the blowing up of the Louis XIV bridge during the Normandy campaign, quotes the officer in charge as saying: "It will take two hours to put another bridge in its place, after we get this stuff out."

Next, a pamphlet putting forward recommendation for Food and Accommodation for Road Transport Workers—"Standard plans," we read, "have been prepared by builders, and will be available on request." In the latest Georgian Group pamphlet, *The Limitation of Building Heights*, Mr. Trystan Edwards, persuasive as ever, sets out to prove that comparatively low buildings close together may bring in a greater revenue than high buildings further apart, while in the last issue of *M.K.R.'s Outlook*, larger and brighter than ever, Maude Riley romps round her garden with accustomed energy potting out her artists, and pulling up the ugly weeds—this month's growth being the scandal of the German art treasures, removed to the USA for, it is excused, "safe custody." Don't come out of your garden, Maude, you're doing fine.

Smudges, a pocket-sized architectural student's publication from Australia, increases in size, colour and enthusiasm, while *Parson*, a Digest in a dog-collar, attempts to combine theology with the making of concrete paths into a readable little magazine, complete with jokes, aphorisms, competitions, and an article describing Mr. John D. Rockefeller's Riverside Church with its twenty storeys of offices and full-time carillonneur.

Final bubble—and an iridescent one—on this week-end bouillabaisse is the collection of Gordon Hemm's drawings of Liverpool Cathedral, published at 5s. net by Littlebury Brothers. Mr. Hemm is obviously fond of the cathedral and his descriptive text is as enthusiastic as his drawings are affectionate. He uses various techniques and takes widely different viewpoints, but, as happens in most architectural perspectives—or in drawings by architects—the result persists in looking more like a design for a building of the future than the record of a building which exists.

Perhaps this knowledge of structure which Sir Charles Reilly suggests in the foreword is such a valuable asset of the architect-artist, is in fact no asset but a handicap, making nothing but a Farey-tale of every honest building.

CELLOPHANE HEALTH?

The Americans are going in for germicidal lamps in a big way, it seems. They are obviously intending to put them in every conceivably useful place, from hospitals, schools, auditoria, food processing plants, stores, hotels, right down to houses. This domestic use of germicidal lamps in the home is partly, but not only, because the American womenfolk like to bear their children in their own homes.

One lamp goes in the bathroom, another in the nursery, another in a sterile storage cabinet. The refrigerator and the air-conditioning system will also have one each. Oddly enough, the Usonians (as Frank Lloyd Wright wants us to call them) have missed public transport vehicles in this death-ray campaign.

The medicos tell us that the severity of many diseases depends to some extent on the size of the germ dosage. It will therefore be very interesting to see what effect the widespread use of germicidal lamps will have on the incidence of disease. The food and compost cranks will no doubt smile superciliously at this latest fad, claiming that it is as useless to health as wrapping clean, but utterly devitalized, food in cellophane. Perhaps the cranks are right, but one cannot help feeling that the daily defeat of a few billion microbes would be no disadvantage.

FOR YOUR COMMENT

"Private secretary (lady) with architectural knowledge and ability design houses or draw plans, used to interviewing; shorthand-typing essential; about £500 per annum.—Apply Lowrie & Co., Employment Specialists, 19, Basinghall Street, E.C.2." (Appointments and Situations Vacant, *The Times*.)

ASTRAGAL



LETTERS

- A. R. Manuel, A.R.I.B.A.
- Sir Charles Reilly, O.B.E., LL.D., F.R.I.B.A.
- Andrew Carden, A.R.I.B.A.
- Stuart G. Hayter

Crystal Palace Competition

SIR,—With regard to Mr. Granger's letter about architectural competitions and the public, I am afraid the public thinks that these are a sort of football-pool-cum-sweepstake affair with the prizes going to those with the most adroit crossword-puzzle type of technique.

Perhaps the RIBA could educate the public in some way.

London

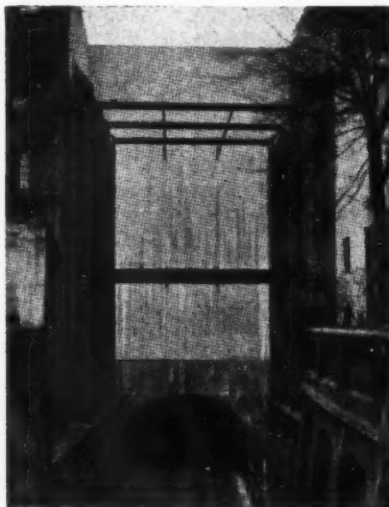
A. R. MANUEL

National Amenities Council

SIR,—My attention has been called to the letter of the Hon. Lionel Brett in the A.J. regarding the National Amenities Council. I fear that Mr. Brett has quite a wrong impression. Many well known architects believe that this new organization can render valuable public service and have promised their support. We must, however, remember that architects are not the only persons interested in amenities and that it is essential to consider public rather than purely professional interest.

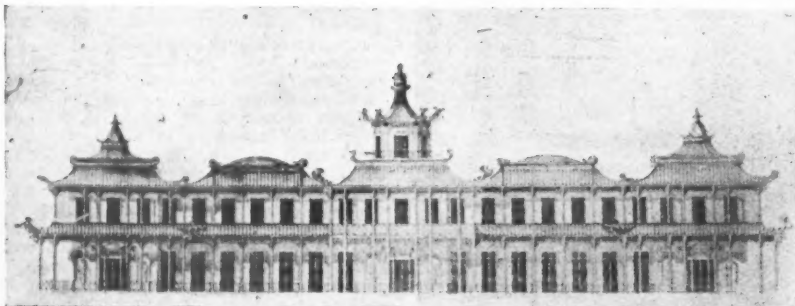
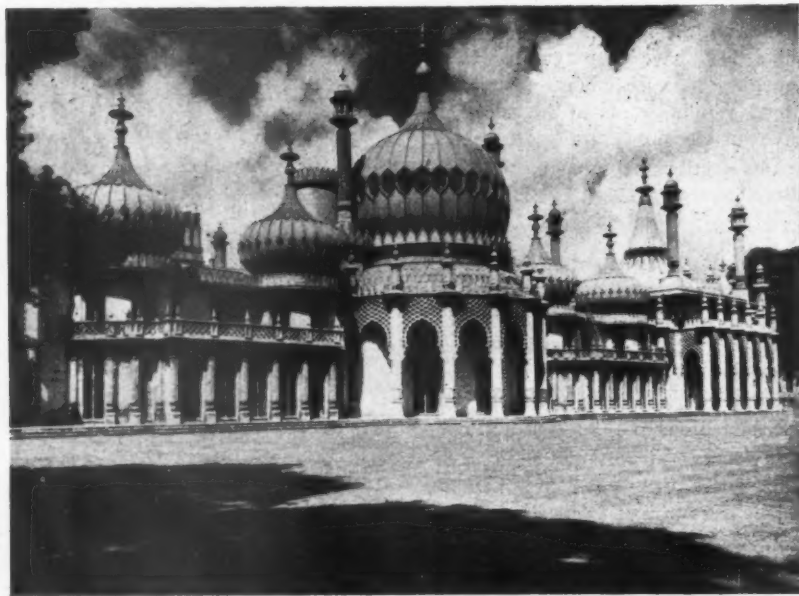
Architects will certainly be failing in their duty to the community if they do not apply themselves to doing everything that is possible to benefit the nation as a whole. They have, however, to admit that they have much to learn from scientists, engineers, members of the medical professions and others. In these days, no one man can wisely rely upon his own resources. It is essential that he should call in specialists and accept their advice. For this very reason, the National Amenities Council can render a service of incalculable value by making it possible for there to be continuous, not casual, co-operation by all interested in any way. Moreover, such a body can do much useful work by endeavouring to create an enlightened public opinion and by co-ordination.

There must certainly be no unnecessary overlapping of the work of other bodies, but steps to prevent this are being taken



Left, the frontage of No. 23 Leinster Gardens, Bayswater. Right, the blank wall which forms the back as seen from the Inner Circle Railway; the structure is only 5 ft. in depth. From Building the Inner Circle Railway which Astragal writes about this week.

THE REGENCY FESTIVAL



Photographs taken at the Regency festival and exhibition held at the Royal Pavilion, Brighton, in aid of Sussex charities. Top, the Royal Pavilion. Centre, the Banqueting Room of the Royal Pavilion in which were exhibited examples of Regency furniture including the King's loan of several pieces designed for the room by Robert Jones. Bottom, original drawing at the exhibition of a project for the Pavilion in the Chinese manner.

and most careful consideration is being given to any cases where this might possibly occur. It has, however, to be remembered that in the case of the National Amenities Council, amenities are not regarded as purely æsthetic considerations.

We are also concerned with the provision of essential services, which make life physically, in every sense, as good a thing for the people as a whole as it can possibly be made. When I recall past failures in this respect, I am more than ever convinced that the problem must now be approached in a new way, with the advantage of all the knowledge that specialists in every walk of life can provide, and with the active interest of the public at large.

Twickenham

CHARLES REILLY

Where is the Money to Come From?

SIR.—Mr. Mumford's challenging question, "Where is the Money to Come From?" stood out as clearly in your report of his lecture to the RIBA as it did when spoken by him.

It is the key phrase of his whole admirable address, affecting not merely UNO's new home but all our future actions. Our lives, and consequently our architecture, depend on the answer.

The air is thick with the plans of planners and projects for the future (good, bad and indifferent) but are they all to end in dust and ashes or as intolerable burdens of community indebtedness, their costs stifling the good future they are designed to create?

Mr. Mumford gave no answer to this riddle that looks like wrecking once again the good intentions of a post-war world.

An answer is demanded, and that answer lies in the economic technique of Social Credit, whose philosophy and outlook coincides so closely with Mr. Mumford's own that one is bound to suspect a relationship. It is the only approach to current problems that is unburdened by a dead weight of pride and blind prejudice inherited from the past. It can face with confidence the present and the future, with a technique that will release the productive energies of a power age for the creative purposes of man.

Architects who turn their backs on this problem do so at their peril.

Chelmsford

ANDREW CARDEN

The Family Unit

SIR.—Listening to Lewis Mumford's recent broadcast was like hearing a voice in the wilderness of the modern galaxy of ambiguous planning.

How seldom nowadays do we find the tree of the planning set firmly with its roots in the ground, and all too often do we find the branches embedded deeply, and the very roots hanging limply in mid-air to be relentlessly deprived of nutrition.

These vital roots of the family unit, which feed the bole of the nation's population, alone can provide the essential nutriment in the sap of service to the complementary branches of industry, transport, commerce, education and the many other activities of our civilisation.

Let us then take this vital lesson to heart and no longer plant our planning trees in reverse, but set the young sapling in good ground and so enable the energetic, adventurous, sturdy young roots to take hold whilst still it has youth and is quick.

And now, resorting to the cryptic lingo of Mr. Mumford's native land over the way, he certainly hit the nail on the head many times, and it was refreshing to hear this Professor's friendly voice, no longer in the wilderness but like a clarion call championing the only thing worth planning for—the Family Unit.

Danbury, Essex

STUART G. HAYTER.

PHYSICAL PLANNING SUPPLEMENT



GUILDFORD

AN OUTLINE PLAN PREPARED BY G. A. JELlicoe

In October, 1944, the Guildford Borough Council appointed Mr. G. A. Jellicoe as Planning Consultant to produce an Outline Plan for Guildford, upon which a detailed Planning Scheme could be built. This Outline Plan was received by the Council at a Special Meeting held on July 23, 1946, and is reviewed below. In receiving the Plan, the Council is not committing itself at this stage to every point of the Plan, but it is satisfied that it does provide an excellent basis on which to proceed with a comprehensive Scheme, on which it now proposes to embark. Above, a prospect of Guildford in 1798 from an old print. The sketches on subsequent pages indicating the visual aspect of the proposals are by Sheila Haywood.

Guildford is a very prosperous old-established market, shopping and residential town, and originally the seat of County Government. It has a number of relatively localised old industries in the valley adjoining the River Wey . . . and several newer concerns adjoining the By-pass. The siting of the old town was determined by topographical features developing round the road-crossing of the river, where it was protected by a castle, and where a number of roads converged from the adjoining hills and valleys. The High Street, which is fairly wide and on a steep hill, is one of the finest in the region, and form the principal shopping street . . . the town has expanded fairly rapidly in all directions, except in the south-west; especially on the east and west it is very hilly with splendid views of the south; expensive development is mostly located on the south and east where sites are greatly sought after. A good deal of cheap and sometimes scattered building has taken place on the west and north-east, much of it adjoining the By-pass; this comes as a disappointment after the first stretch through Stoke Park . . . Very little expansion of the town is proposed and no encouragement should be given to further suburban development as a dormitory for London . . . Guildford is a town that could well act as a reception centre for a restricted number of business concerns, such as insurance offices, etc., coming from London, thus giving local employment to black-coat workers now travelling daily to London for employment.

These extracts from the Report on the Greater London Plan present briefly the picture of the present-day Guildford and its suggested future relationship in the pattern of Greater London.

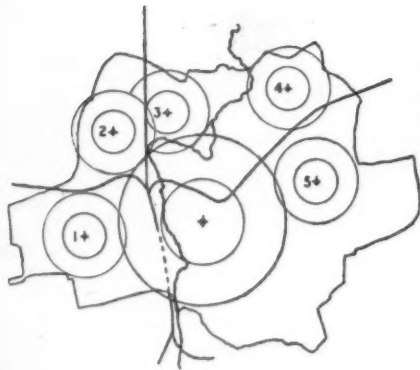
policy

The policy that has been adopted in the framing of the new Plan for Guildford allows for an increase in the estimated present population of 45,000 to an approximate population of 53,000; and thereby aligns the natural tendency of the Borough to develop with the proposals for a static population made in the Greater London Plan. It is also suggested that Guildford should develop its Central Area as a centre for culture, amenity and business to serve beyond the confines of the Borough boundary; and to implement these proposals, some light industry will be encouraged with commercial and professional offices, although heavy industry will be discouraged. Additionally, encouragement will be given to the arts, especially music. The idea of the town as a shopping, market and legal centre is considered suitable, with the development of a summer open air resort. It is recognised that the town has a variety of uses; and apart from those mentioned, there is the new Cathedral rising up—a community diversified and well-balanced in character.

transport

Although the A3 London to Portsmouth road already bypasses the town centre, it is considered that this does not perform its proper function—a through route with a minimum number of local road connections—and an alternative route is proposed which will leave the Burpham neighbourhood intact, and at the same time will be easy to construct, take the place of an existing scheme for widening the A3 by-pass, and can be created as a distinguished parkway. A new perimeter road is to extend round the outside of the neighbourhoods (excepting Burpham) and will connect with the A3 at the Hog's Back in a proposed considerable subterranean junction,

OUTLINE PLAN



1. ONSLOW
2. STOUGHTON
3. BELLFIELDS
4. BURPHAM
5. MERROW

1 MILE

Above, the Outline Plan for Guildford showing the Zoning and Road Proposals. The Key Map on the left enables the five Neighbourhood Units to be identified, and also shows the location of the Community Centres.

REFERENCE

| | |
|---|-----|
| BOUNDARY OF SCHEME | --- |
| CLASSIFIED ROADS | — |
| PROPOSED NEW ROADS | — |
| ROADS PROPOSED TO BE STOPPED UP | — |
| CAR PASSES | □ |
| NEW SOUTHERN RAILWAY STATION | — |
| CENTRAL BUS STATION | — |
| CEMETERIES | □ |
| LAND RESERVED FOR AGRICULTURE | □ |
| INDUSTRIAL | □ |
| GENERAL BUSINESS | □ |
| SPECIAL BUSINESS | □ |
| AREAS IN RESIDENTIAL ZONE WHICH ARE EVENTUALLY TO REVERT TO OPEN SPACES | □ |
| AVERAGE NET DENSITY NOT TO EXCEED 2 HOUSES PER ACRE | □ |
| DI1 TO 4 DO. DO. | □ |
| (AF HARDWOOD AFFORESTATION) | □ |
| NEW SCHOOL SITES INCLUDING PLAYING FIELDS | □ |
| PUBLIC PLAYING FIELDS AND OPEN SPACES | □ |
| EXISTING SCHOOL PLAYING FIELDS UNDISTURBED | □ |
| COMMUNITY CENTRES. | □ |

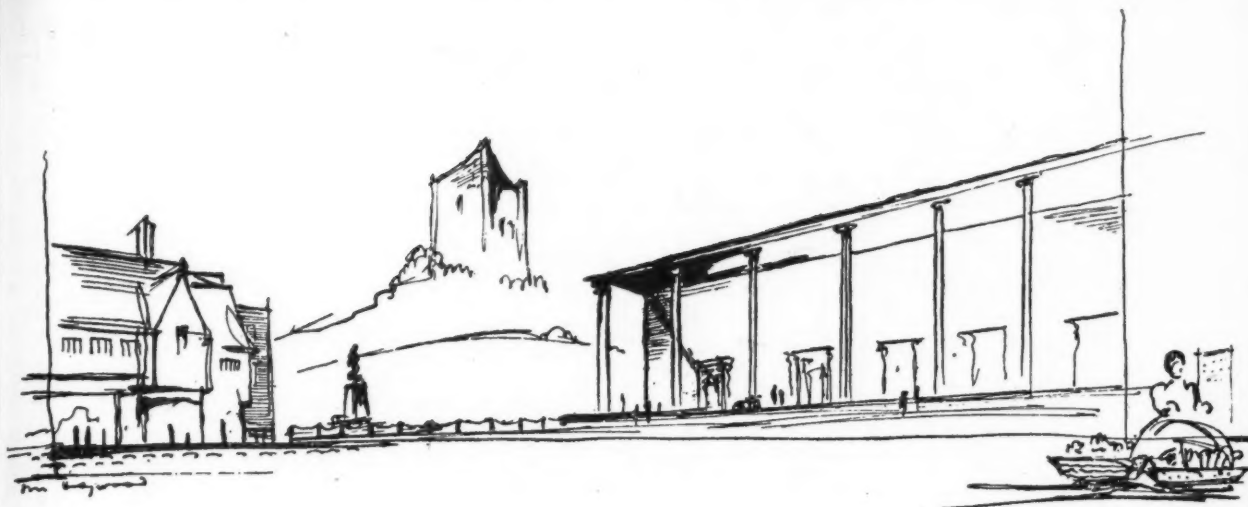
capable of receiving also the Parkway south of the Downs recommended in the Greater London Regional Plan. Within the central part of the town, certain proposals are put forward to enable traffic to clear the shopping and other precincts; these can be identified on the Town Plan and include a new Cathedral Way forming a dignified east-west link with access to Stoke Park, the cricket ground and the industrial estate. A continuation of the Godalming Road provides a continuous Cathedral Drive, terminating the Cathedral Way, and leading round to a double roundabout connecting the Cathedral approach to the By-pass A3. Connections to the A3 route are reduced and eased as much as possible, and the two parts of the Onslow Neighbourhood are linked by subways in two

places—that near to the Community Centre having also a special four-way connection to the By-pass. The approach to Guildford from London under the Plan will be along the new A3 Parkway as far as Stoke Church; from this point to the City Precinct, the approach road acquires a special civic dignity. Generally, it has been considered undesirable to widen existing local roads and thus change their existing character of pleasant proportions and domestic use.

The railways remain as at present, apart from three new stations where the perimeter road crosses the three lines. No airport is possible within the Borough boundary, but if the helicopter develops, landing space could be made available on the Fair Ground and possibly on top of the station.

residential

There are five areas in Guildford which are considered to be favourable for development as neighbourhoods; these are Onslow, Stoughton, Bellfields, Burpham and Merrow. Within



- 1. CITY
- 2. SCHOOL
- 3. CATHEDRAL

1 MILE

Above, a sketch of the proposals showing the view towards the Castle and New Library which is sited between High Street and Castle Street. Left, a diagrammatic map showing the location of the Precincts. Below, a sketch showing the proposed view of S. Nicolas Church and the Bridge of Shops.

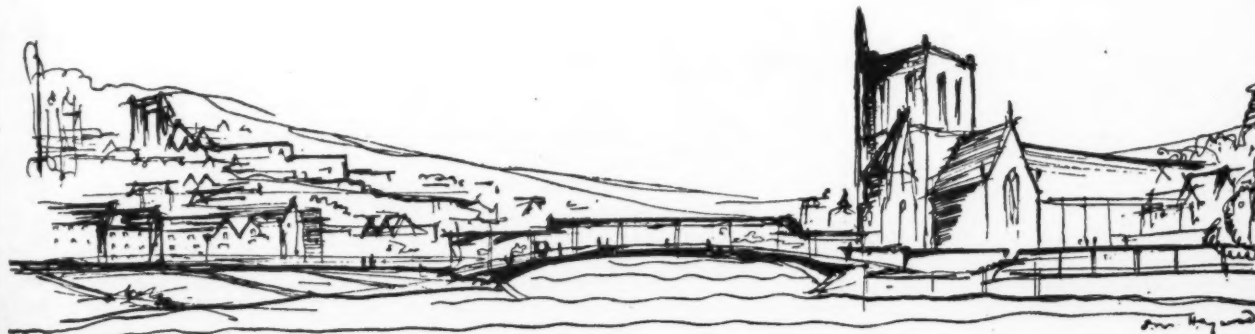
part of their leisure time in domestic pursuits. One colony of flats between Woodbridge Road and Stoke Road will accommodate the same number of persons who now occupy the site but will not be of the same character. These flats will have access from a quiet square containing a nursery school, and will be between two and three storeys in height with occasional blocks as high as six storeys or more.

industry

The main area allotted to industrial use lies between the railway and Woodbridge Road, extending to the west along the A3 route. The temptation to develop this area as a park, with the river flowing through, has been overcome. With the use restricted to light industry, together with a reorganisation of the present chaotic development and some restriction and guidance in the form of the buildings (recommended not to exceed one floor), the result presents the possibility of proving that a certain type of industrial use can bring close to the core of a town the prosperity of industry without damaging the amenities. A service road with continuous car parking space, runs through the industrial area, and commercial offices which can also relate to the industry behind, are situated along the eastern boundary adjoining Woodbridge Road. Pedestrian ways are designed to sub-divide the industrial sites and

each of these units density zoning of housing to encourage diversification is proposed, and there will also be a community building, a shopping centre, and such outlying small groups of shops as necessary. Schools and school playing fields up to the maximum likely to be required by the Education Authorities are also included, with further playing fields and open spaces, on the assumption that the school fields will not be available to the public.

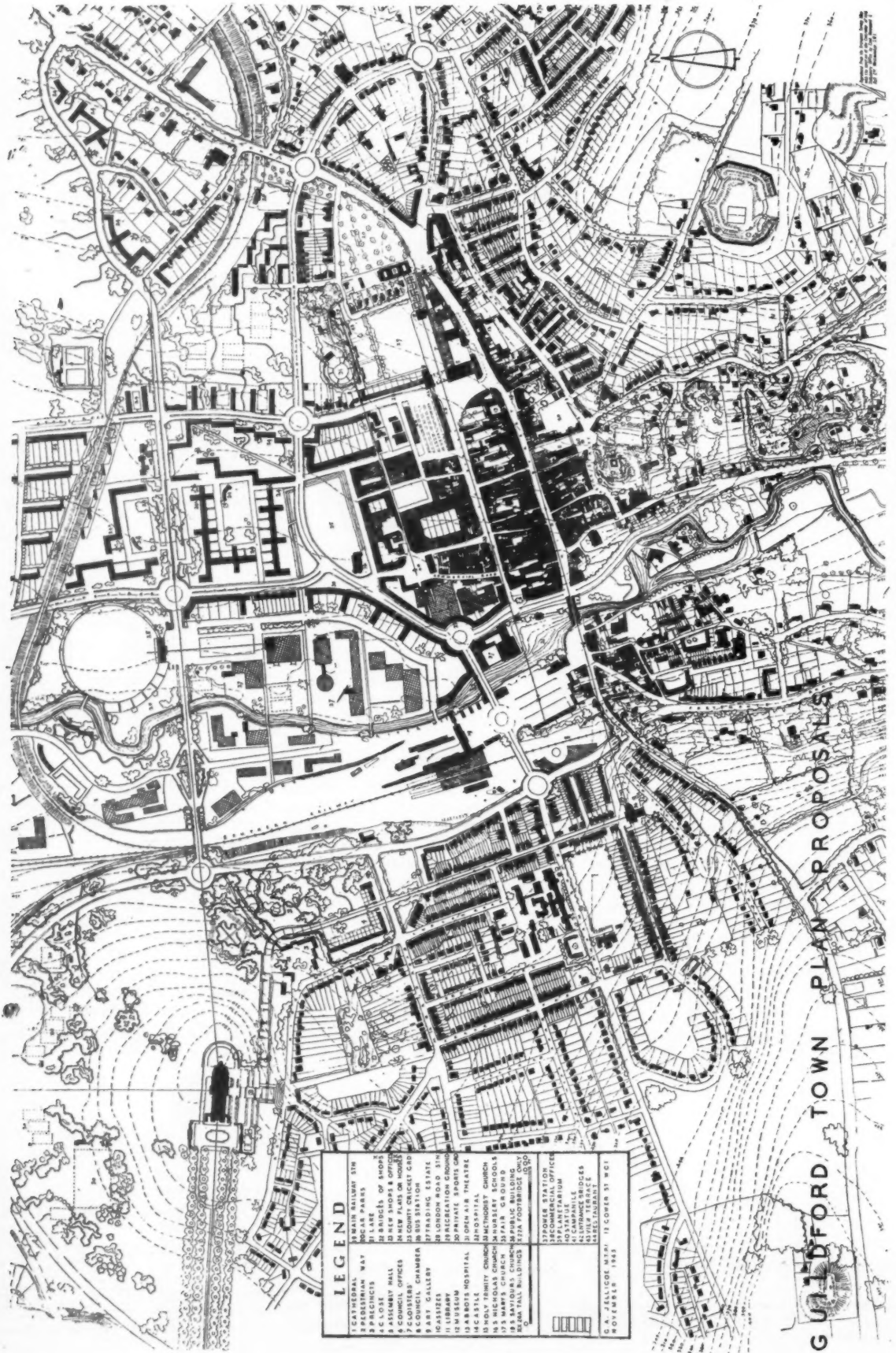
A generous provision is made in the Central Area for flats, and this seems a wise decision in a town of the particular character of Guildford, where in addition to a certain dormitory use from London which will no doubt remain, many people will be attracted by the cultural and artistic developments which the new Plan affords. These people will wish to play an active part in them rather than spend the greater



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| LEGEND | |
|--------|--------------------|
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| 2 | STRAIT RAILWAY STN |
| 3 | WIGGERS PARK |
| 4 | WIGGERS PARK |
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GUILDFORD TOWN PLAN PROPOSALS

TOWN PLAN

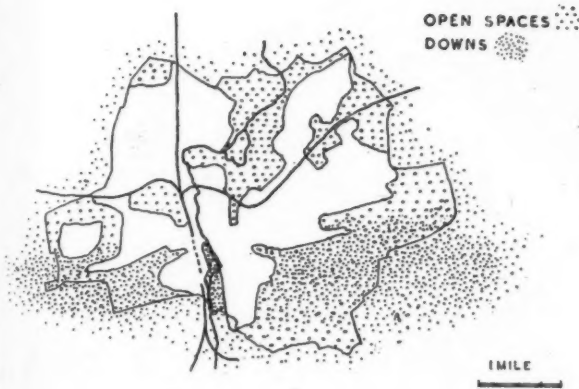
The proposals for the Town Centre, in the new Guildford Plan, have been worked out in some detail, and suggest the kind of layout considered suitable by the Planning Consultant. The retention of the existing shopping streets, and the proposals to keep them free from traffic which has no business in them, is one of the important features of the Plan.

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LANDSCAPE PLAN



The proposals for the detailed treatment of the landscape in the Central Area are shown on the Town Plan. Here, the proposals for the surroundings of Guildford are indicated. Below, a sketch suggesting the idea of the Centre Landscape.

it is proposed that land coverage should be such as to allow each factory a pleasant riverside garden for the use of employees. The Cattle Market is proposed on a new site north of the railway branch line, with a regional Vegetable Market; but if the unsightly gasholders are removed, the Cattle Market could remain on its present site, although moved westwards to align with the service road. The objection to the present position is one of traffic congestion, but otherwise the advantages to business are considerable.

city precinct

Most people will welcome the proposal to retain the existing shopping streets—North Street and High Street—particularly the present domestic and friendly character of the latter. The planning of by-pass routes within the Central Area will enable the local people to pursue their shopping and business pursuits unimpeded by traffic which has no real need to be in the streets designated to these uses. It is suggested that the Tuesday Market could be moved to the new square described as the Fair Ground if it constitutes a serious problem. The Civic Centre terminates North Street and High Street, and provision is made for an Art Gallery and Museum, the latter in the present Grammar School buildings. The siting of the bus station is particularly convenient for shoppers at the end of North Street, and car parks are planned in suitable posi-

tions. Guildford Bridge, at the end of High Street, becomes a footway only and it is suggested that the provision of shops on the bridge would constitute an attractive feature—one which has its roots deep in history. This will allow quick and unimpeded pedestrian access from the station to the shopping streets. Associated with this new picturesque use of the bridge, the riverside scenery to the south is emphasised and the apparent disorder of the buildings on the rising banks is to continue as part of the charm of this area containing the two churches of St. Nicolas and St. Mary on opposite banks of the river. Of the many other attractive features included in this area, an open air theatre is proposed in Foxenden Quarry.

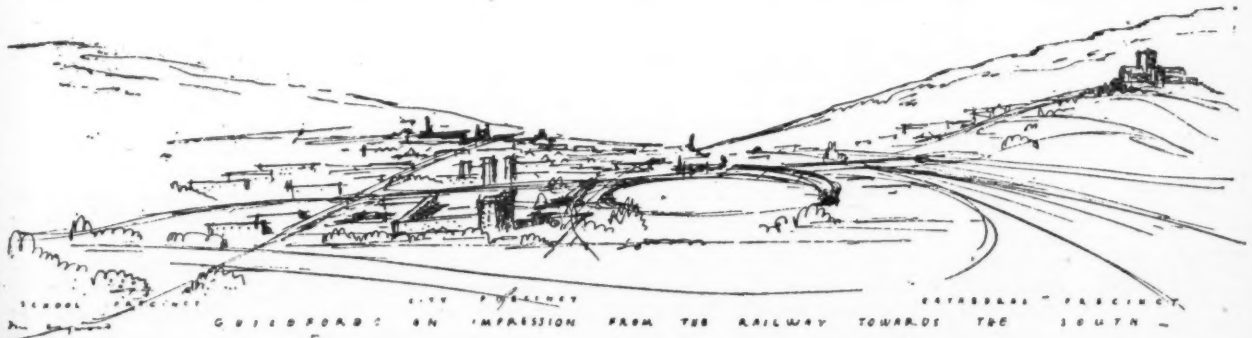
cathedral precinct

The Report states that no deliberation is required in regard to the use of the brickworks and brickfields lying between the new Cathedral and the City. No material value can equal the nature of this land to the Cathedral precincts, and therefore to Guildford as a whole. Through this area an ascending approach, restricted to pedestrian use, leads through the Close and precincts to the Cathedral, whilst visitors by car can approach the west front only along the full length of the monumental avenue. The whole of the area on the north, east and west sides of the Cathedral is to be kept open with Private Club grounds in the trees that thin out up the slopes. Trees round the parkway will be sufficiently dense to conceal the railway from the Cathedral terrace.

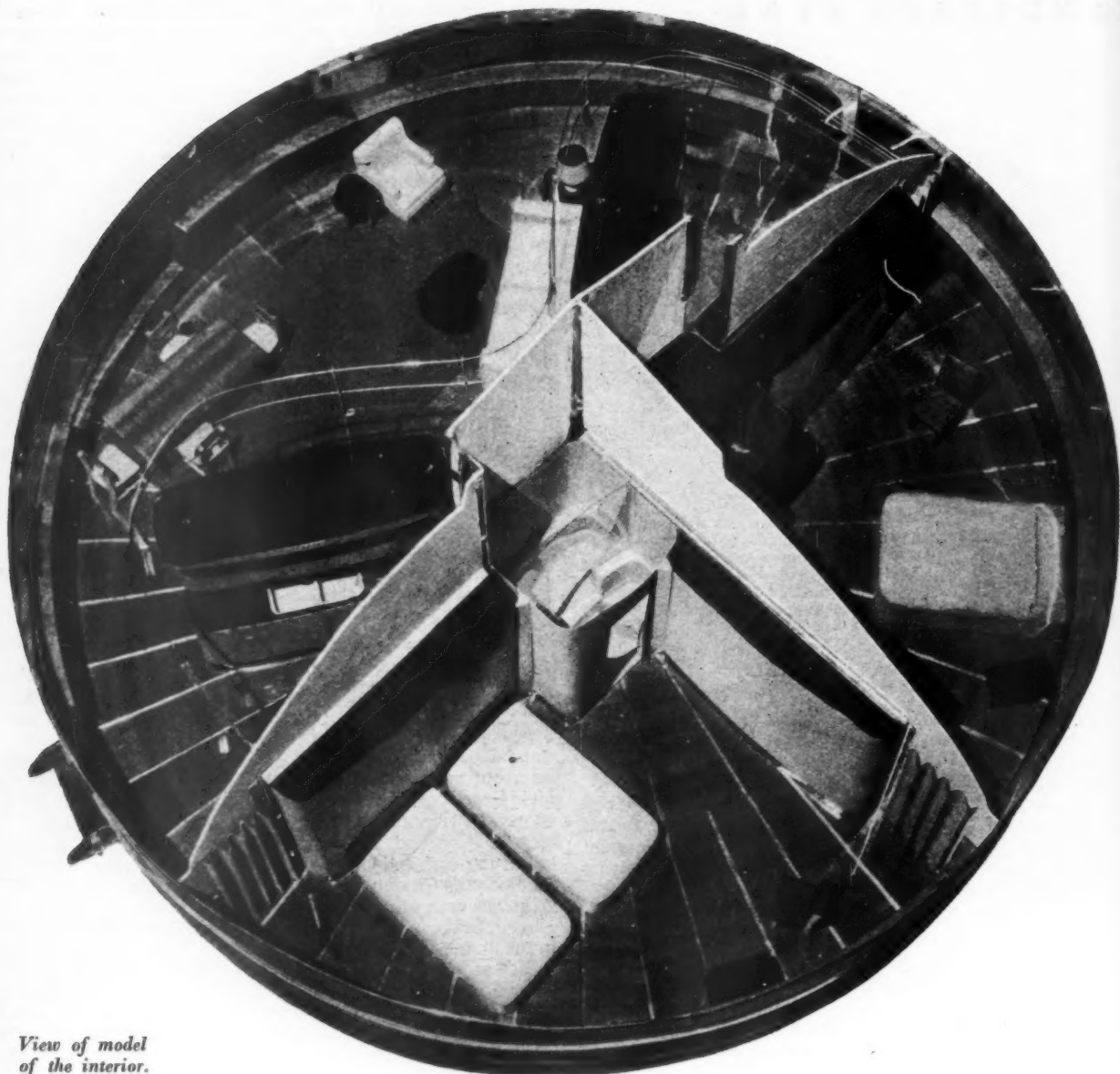
recreation

It is clear that the planning has been considered in relation to the provision of facilities for recreation in many forms. For example, the existing delightful Cricket Ground has been extended to the river and is of a county standard. A grandstand is shown on the west side which will conceal the railway, but not the view of the Cathedral situated beyond on high ground. From the Cricket Ground, a footbridge leads across the river to a well-set restaurant and river terrace. A recreation ground, adjoining the Open Air Theatre, is situated at the east end of North Street, and the space adjoining St. Saviour's Church is scheduled as a Fair Ground. Private sports grounds are proposed north of the Cathedral and public playing fields around the river are recommended for attention in the matter of prevention of flooding. These public playing fields are in exchange for the Stoke Park area which it is considered may have to be allocated to the needs of the School Programme. In addition to these clearly marked recreative features, the landscape is developed and preserved and will add to that pleasure arising unconsciously from it as people move around the town. A riverside walk through the town is proposed amongst other pleasant pedestrian ways. There are also various proposals in regard to the open spaces around the town, such as the proposal that certain existing buildings near to the Pilgrim's Way should revert in time to open space, and indeed the natural beauty which can surround and enter into a town is stressed in the Report—"the recognition of the city in all its parts as the product of a strong and beautiful natural landscape."

TOWN PLAN



in some detail, and suggest the kind of layout considered suitable by the Planning Commission. The retention of the existing shopping streets, and the proposals to keep them free from traffic which has no business in them, is one of the important features of the Plan.



*View of model
of the interior.*

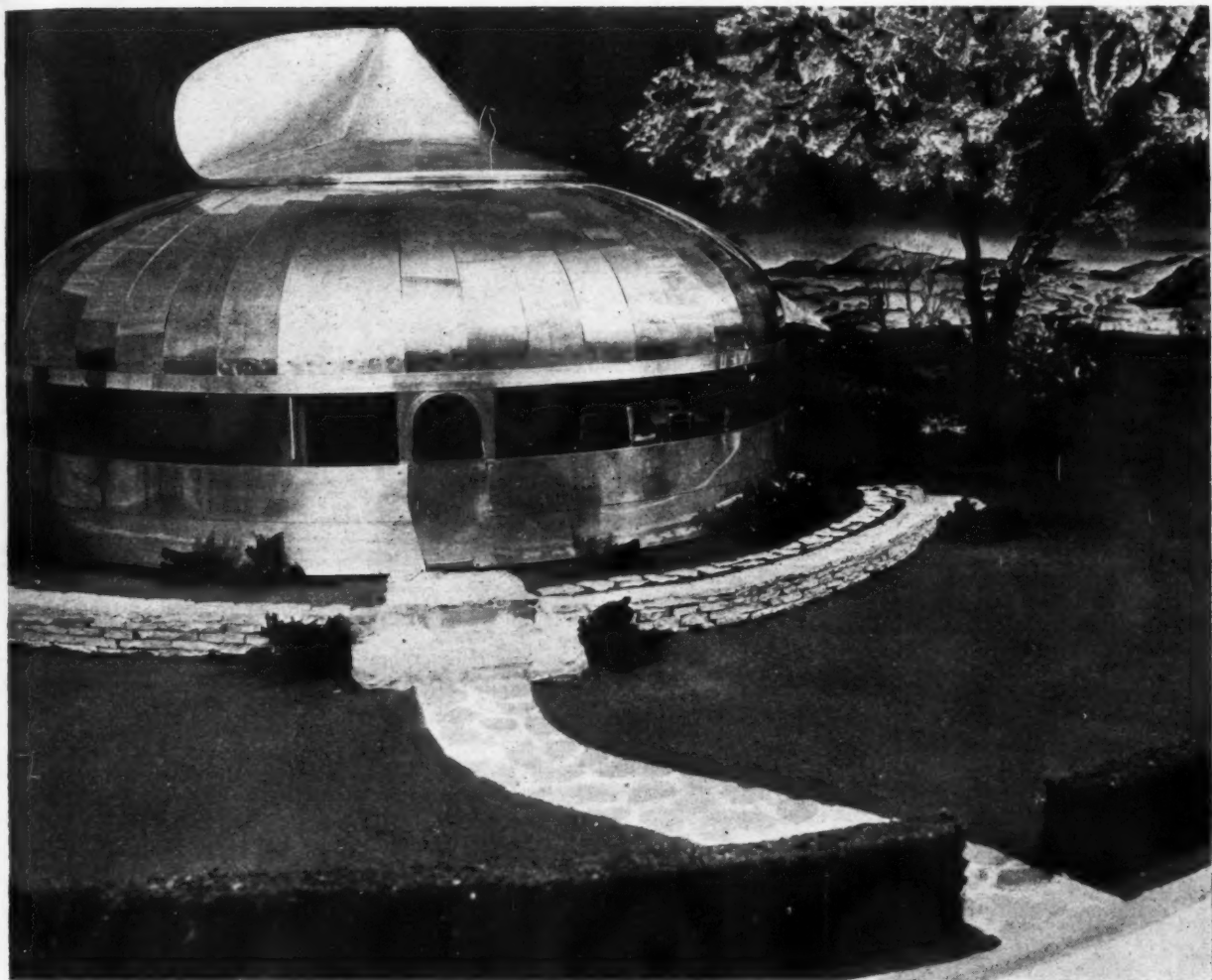
RICHARD BUCKMINSTER FULLER'S FOUR TON HOUSE

GENERAL.—This house is a development of Fuller's Dymaxion house of 1927 and has been designed for production by aircraft plant in aircraft materials. A prototype has been completed and is ready to go into mass production next year at the Beech Aircraft Corp., Wichita, which will be able to turn out some 50,000 a year at a retail price of \$6,500 each. The houses will be distributed through local dealers. The weight is about

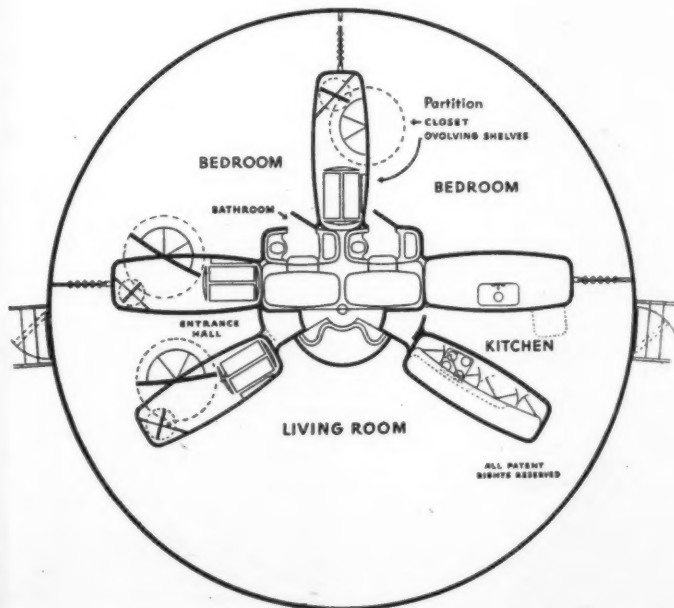
4 tons, one-tenth that of the traditional house, the main materials being aluminium alloy, plywood, stainless steel and plastics. Erection on the site takes 160 man hours—two days work for a crew of ten men. The entire house, except for kitchen equipment, can be transported in a cylindrical container 16 ft. long by 4½ ft. in diameter, the exterior sections being packed flat, and curved to shape on the site. Apart from

service facilities, the house has only fifty types of parts, no part weighing more than 30 lb.

PLAN.—This is a circle of 36 ft. diameter with height at centre of 16 ft., the theory being that a circle offers more area in relation to linear measurement than any other form. The total floor area is 1,017 sq. ft., and another 200 sq. ft. can be added in the form of a balcony across the living-room

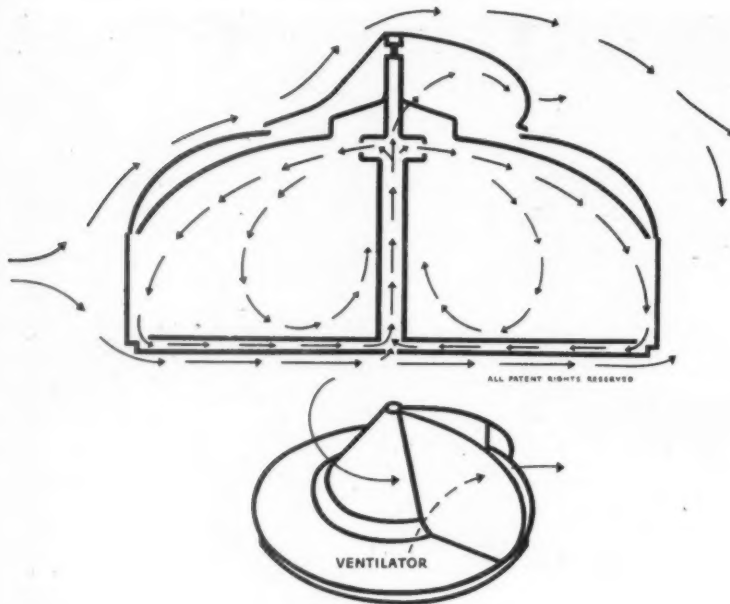


Above, model showing the exterior; the whole structure, of aluminium, stainless steel, plastics and plywood is suspended on a central mast. Below, plan of 36 ft. diameter, containing living-dining room, two bedrooms, two bathrooms, kitchen, entrance hall, built-in cupboards, and back and front door, covering 1,017 sq. ft. in all.

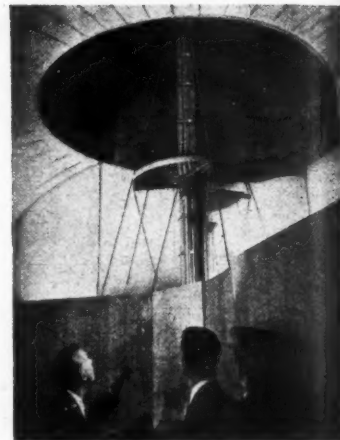


partitions. All circulation is on the periphery and space division is accomplished with prefitted storage equipment. The living-room space is equal to a room 16 ft. by 21 ft.

CONSTRUCTION. — The main principle is one of tension, the only compression member being the central mast, on which the whole house is suspended. From this mast, built up of seven stainless steel pipes, hang three circular rings connected by tension cables, which provide rigidity and act as a framework for the metal skin of the roof. Cables, triangulated from the mast, weave through the successive rings and are then brought down to support the floor. The cable ends terminate in steel anchor rods placed at intervals round the house. Arched roof carlings, grooved in section, rest directly on an outer compression ring, acting as inside gutter. From this gutter pipes run down to a second circular gutter of synthetic rubber near the base of the house. The exterior wall is of aluminium sheeting and a sealed Plexiglas



Above, diagram of the ventilating system with its revolving cone and air flow. Top right, the central mast, which is the structural core of the house; to its base, concealed by partitions, are connected all utilities; from it, concealed light is thrown on to the domed ceiling. Below, the living-dining room; the window is of Plexiglas plastic; the wall covering beneath the window is of leather-like plastic fabric; this section of the wall can be lowered to expose a plastic screen that lets in fresh air; the partitions containing cupboards, etc., are of ply-covered aluminium.



plastic window. Below the window, the top part of the sheeting can be lowered for ventilation to expose a plastic screen, when air conditioning is not required. Fastenings throughout are bolts and "blind" rivets. The sheet metal and Plexiglas of the external wall achieve strength by being bent, the whole house being designed to resist a wind of 180 m.p.h. All structural materials are non-combustible and non-corrosive. The floor is of radiating plywood boards set in aluminium ribs. Doors are of accordion type of metal covered with flexible plastic.

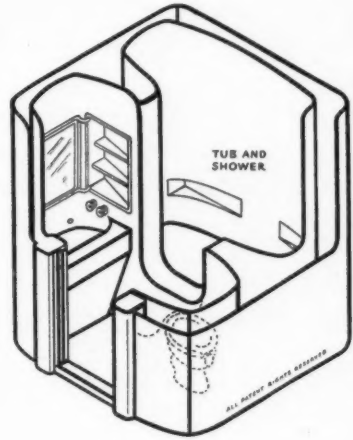
The domed aluminium roof reflects the sun's heat in summer, while the aluminium ceiling retains indoor heat in the same way in winter. Between the two, foil insulation and an air space give additional protection. A revolving cone on the roof, always facing into the wind, creates a low-pressure area in its wake which draws warm exhaust air up and out of the central mast. Intake is through ducts in the roof and beneath the house. The ventilating cone is capable of rising 2 ft. on the central mast under radical wind conditions.

SERVICES AND EQUIPMENT.

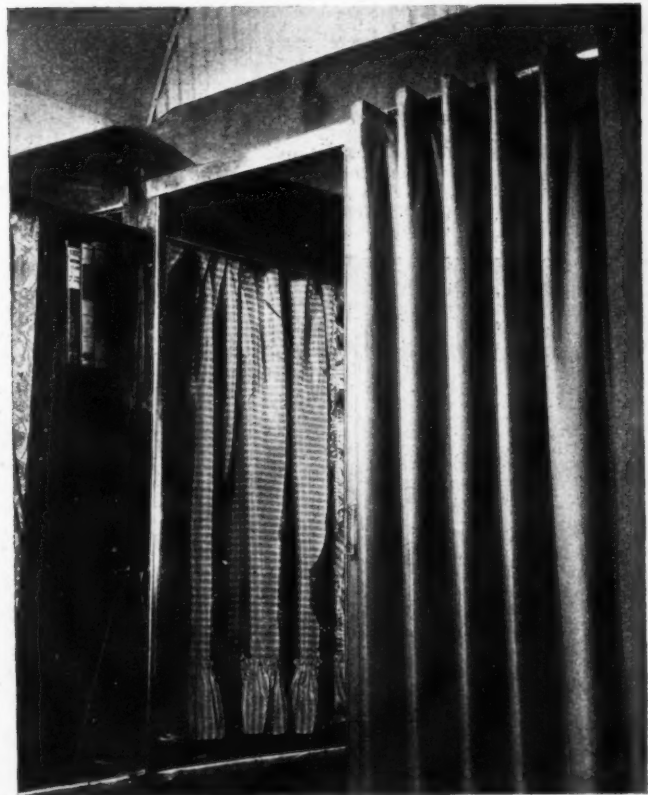
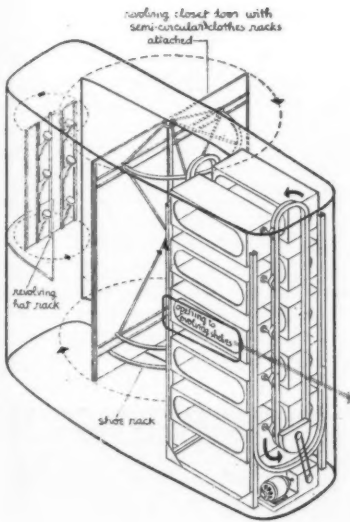
—The central mast contains heating and air conditioning plant operating on gas, oil or electricity, and to it are connected all other services. The kitchen contains refrigerator, dishwashing machine, sink, cooker, garbage disposal unit, etc.

The bedroom cupboard units contain nine shelves which rotate on a vertical, motor-driven conveyor belt, and stop as required at a shoulder-high slot in the wall; thus the full height of the partition space can be used without reaching or bending.

Lighting is reflected from the central mast on to the curved ceiling; it can be varied in colour as required.



Top left, a wider view of the living room which contains an open, stainless-steel fireplace. Top right, diagram of the bathroom unit containing bath, basin, w.c., and mirror. Left, diagram of the cupboard unit with its shelves on a conveyor belt. Below left, a close-up of the slot through which the required shelf can be reached at shoulder height. Below, a close-up of one of the accordion doors of metal covered with plastic fabric.



THE FULLER HOUSE



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INFORMATION CENTRE

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

PHYSICAL PLANNING

2673

National Parks

EVIDENCE SUBMITTED TO THE NATIONAL PARKS COMMITTEE OF THE MINISTRY OF TOWN AND COUNTRY PLANNING. *The Institute of Landscape Architects. (Journal of the Institute of Landscape Architects, April, 1946, p. 21.)* Regional Parks. Numbers of holiday visitors. Footpaths. Planting. Nature conservation.

The Institute welcomes the general suggestions contained in the report prepared by J. Dower for the Ministry of Town and Country Planning (National Parks in England and Wales. Report by J. Dower, HMSO, 1945, Cmd. 6628, 1s.—See *Architects' Journal*, 31.5.45, p. 405, and 7.6.45, p. 418). It shares the view expressed in §9 of the report that "if the parks in the first instalment are too few or too small, the concentration of visitors will lead to damage to amenities . . . and to initial discredit of the National Parks Administration."

The Institute draws attention to the following points:

1. The establishment of national parks should not delay the provision of regional parks. There should be adequate powers to safeguard other areas having important landscape or recreational value, including the normal rural scene.

2. The maximum numbers of holiday visitors to national park areas and the accommodation provided for them should be limited in order to prevent destruction of the

special character of an area on account of too excessive holiday use.

3. It is suggested that a well-considered system of footpaths and bridleways should be provided not only in the National Parks but throughout the country, as one of the best means of preventing overcrowding in the national park areas themselves.

4. Qualified landscape architects should be included among recommended planning consultants in order to advise on siting and subsequent planting.

5. The Institute supports all efforts to preserve wild life as far as possible. A national campaign in the interest of nature conservation should be considered an urgent and immediate necessity in view of the establishment of national parks.

STRUCTURE

2674

Prestressed Concrete

PRESTRESSED CONCRETE SLEEPERS. (*Concrete and Constructional Engineering, June, 1946, pp. 168-170.*) New method of manufacturing. Highly developed technique, extensive mechanization. Applied here to sleepers but could be used for economic production of standardized building units.

2675

Soviet Building Technique

SOVIET UNION DEVELOPS NEW BUILDING TECHNIQUE. (*Engineering News-*

Record, May 16, 1946, pp. 797-801.) New method of design. Wither concreting methods. Prefabrication.

As a result of experiments carried out in Moscow about 1930, a new theory of designing reinforced concrete was developed. It abandons the modular ratio and bases design on ultimate loads instead of on working stresses. It was adopted by the Soviet Union about 10 years ago because it is believed to yield more accurate and economical results.

An analogous development has taken place in arch theory. Russian research has adapted native techniques of constructing thin, brick-vaulted roofs in seismic regions to present-day needs. Uzbekistan vaulting utilizes double curvature and a shape precluding occurrence of tensile stresses.

Another important result of Russian research is the development of methods for winter concreting. Three methods are used: (1) The Thermos method (*i.e.*, placing hot concrete into forms with thermal insulation). (2) Steam curing. (3) Electrical curing. (See Inf. Centre No. 2300: 3.1.46.)

Manufacturing prefabricated houses is a new branch of Soviet industry, and one that is not widely developed as yet, although there are many indications that this industry will have a big future.

2676

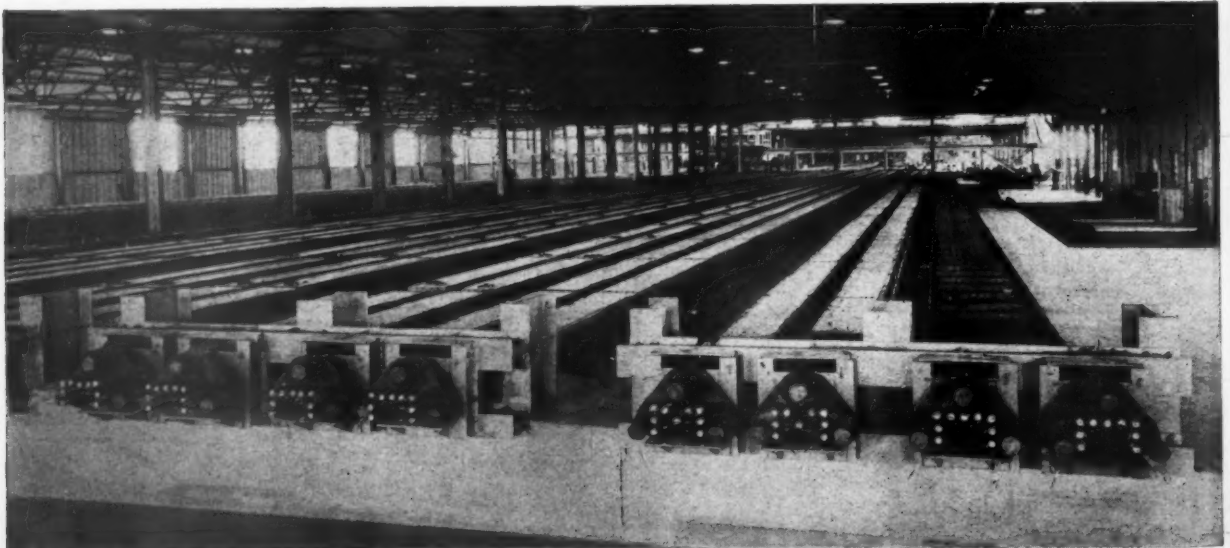
Pile Foundations

PILES AND PILE FOUNDATIONS. *R. D. Chellis. (Engineering News-Record, May 16, 30, June 13, 1946, pp. 774-8, 863-5, 914-9.)* Four ways in which piles may act. Group action. Criticism of pile formulæ. Reduction of efficiency of driving. Excavation and fill. Causes of settlement. Effect on adjacent structures. Application of the Hiley formula. Rules for determining safe working loads from result of pile tests.

2677

Prefabrication

TRENDS IN PREFABRICATION. *Lecture by Colonel N. Tweddell at the Health Centre of the Royal Sanitary Institute at Blackpool (The Builder, June 14, 1946, pp. 593-4.)* Prefabrication of permanent houses. Variety of materials

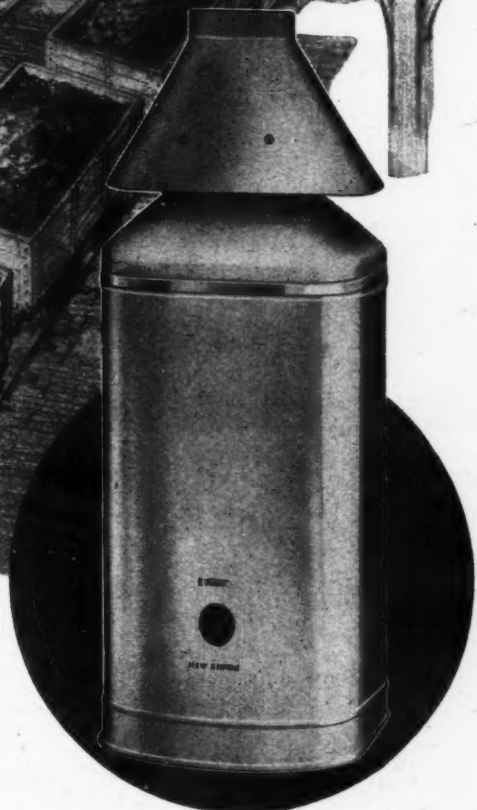


A factory at Tallington where Messrs. Dow Max produce prestressed concrete railway sleepers. The process is highly mechanized, the reinforcing wires being stretched in pairs on lengths of 450 ft. See No. 2674.

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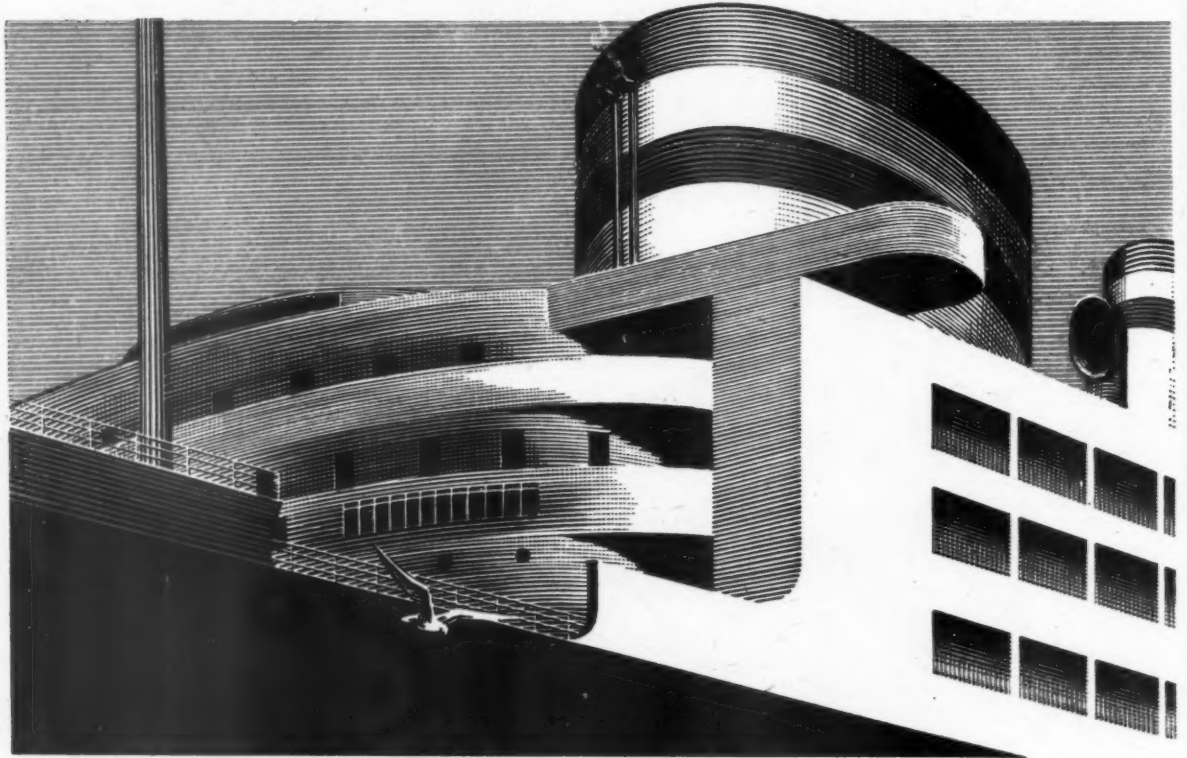
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2678 Housing Methods and Materials

MATERIALS AND METHODS OF CONSTRUCTION FOR HOUSING. Lecture by R. Fitzmaurice at the AA May 26, 1946. (*The Architects' Journal*, June 27, 1946, p. 494 and other journals.) Effect of scarcity of materials on development. Factors influencing design. Dimensional tolerances. Production limitations. Transport. Importance of testing and inspection.

MATERIALS

2679 Portland Cement

METHODS OF MECHANICAL ANALYSIS OF PORTLAND CEMENTS. H. E. Rose. (*Engineering*, May 17 and 24, 1946, pp. 457-9, 483-4.) Importance of fineness characteristics of cement and various methods of their determination.

The article describes several new methods of determining the fineness characteristics of cement: the size frequency and the specific surface. (See Inf. Centre No. 1103:25.3.43.)

HEATING and Ventilation

2680 Insulating Materials

"READY-TO-FIT" THERMAL INSULATING MATERIALS: for Hot and Cold Water Supply and Central Heating Installations for Small Dwellings. *British Standard* 1,304—1946. (*British Standards Institution*, 2s.) Range of insulating coverings for plumbing systems in small dwellings. Dimensions specified to fit British Standard cylinders, tanks, cisterns, and piping. Minimum thicknesses laid down on basis of proved thermal conductivity of various commonly used materials. Desirable standards of thermal insulation established. Emphasis on possible savings in fuel consumption.

This important Specification sets out to establish a recognized standard of thermal performance for domestic plumbing systems. It is based on the scientific measurement of the thermal properties of commonly used insulating materials; minimum thicknesses of material required to attain the desirable standard are laid down on a basis of the thermal conductivity of the material used, as determined by the standard method of the National Physical Laboratory. Thus latitude is given to manufacturers in the choice of material, and the purchaser is safeguarded against extravagant claims. The material is to be supplied complete with fastenings, thus saving site labour. It is emphasized that insulation must be considered at an early stage of design, and necessary clearances around pipes and fittings are described in an appendix, with other useful notes on

the application of insulation.

Another Appendix shows by calculated example the extent of fuel economy possible by the proper use of insulation. In the example chosen, this is shown to be about 79 lb. of fuel per week, on a fairly typical hot-water supply installation. The effectiveness of insulation as a protection against frost damage is also pointed out.

There is a useful table of properties of commonly used insulating materials, with minimum thicknesses required to comply with the specification.

2681 Book on Heating and Ventilation

HEATING AND VENTILATION FOR ARCHITECTS AND BUILDERS. R. K. Cornell. (*Paul Elek Publishers Limited*, 7s. 6d.) Intended to cover the subject for architects and builders. Is a useful quick survey. 56 pages.

This book is somewhat disappointing. It is intended specifically for architects and builders rather than for engineers. Had it been really successful in treatment such a book would have been a most valuable addition. It is felt, however, that the author has failed to grasp completely the requirements of his readers. There is some explanation of principles but valuable information which an architect should have at the sketch design stage of his work is largely missing.

The information which is given is useful and does provide a compact reference, but might have been improved with a more clearly defined grouping of the sections and in particular with a clearer form of sub-titling.

2682 Uses for Gas

COMMERCIAL USES FOR GAS. W. Johnson and W. F. Moore. Paper to *Institution of Gas Engineers* at 83rd Annual General Meeting, June, 1946. (*Published by Institution of Gas Engineers as Communication No. 297.*) Intended primarily as guidance to gas companies on methods of sales propaganda. Deals in detail with bakeries, fish frying shops, hotels and restaurants, hairdressers, and less fully with gas heating and hot water supplies to a variety of commercial and municipal buildings. Architects will find some useful information.

2683 Solar Heating

SOLAR HEATING. PUTTING SUNBEAMS ON THE ROOF TO WORK. (*Plumbing and Heating Journal [USA]*, May, 1946.) Descriptive article on solar water heating. 85 per cent. homes in Florida equipped. Reference to research work on solar cooking and storage of solar heat from summer to winter. Insufficient data in article to be very valuable. Some illustrations.

MISCELLANEOUS

2684 Standards

FURTHER USES OF STANDARDS IN BUILDING. *Second Progress Report of the Standards Committee of the Ministry of Works.* (H.M. Stationery Office, 9d.) Objects of standardization. Account of progress made. Note on modular co-ordination.

This is a useful review of the subject. Everyone will have been aware of the large

output of new BSS during the past two years. This second report of the Standards Committee serves a useful purpose in giving a brief review of what has been done and why. There has been a certain amount of criticism about lack of co-ordination between standards and in particular the lack of any acceptance of a modular system. The attitude of the committee on these points is clearly described and it must be admitted that their arguments are strong. There is no doubt that this committee and the British Standards Institution have done a very useful job of work. If full value is to be obtained, however, it is essential for architects to make use of the standards. To omit to do so will in any case be to omit taking advantage of a valuable means of reducing their own labours and of improving their buildings.

The committee feels that recommendations have now been made for all standards which can be dealt with at the moment. It, therefore, proposes to go into recess while the British Standards Institution completes the standards in preparation and to enable more work to be done before further standards can be put in hand.

2685 Electric Generating Plant

PRIVATE ELECTRIC GENERATING PLANT. *British Standard Code of Practice.* Draft for Comment. 2nd Proof 1946. (*British Standards Institution*, 2s. 0d.) Covers private electric generating plant of both alternating current and direct current types not exceeding 250 kws., voltage not exceeding 650 volts. Consideration given to housing of plant, including foundations, choice of system, possibilities of extension or supercession by mains supply, automatic operation and economy of operation by careful planning of load.

QUESTIONS and Answers

THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.1.

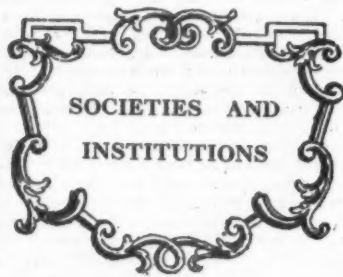
2686 Chapel into House

Q I have had an enquiry concerning the conversion of a small Congregational Chapel into a dwelling house. The difficulty is that a burial took place in the ground outside the Chapel about 1926. The information that I require is the period of time that must elapse before it can be used for other purposes, and also what other regulations have to be complied with, such as notification of existing relatives. Another problem is that there is a vault under the floor of the Chapel. Again, what is the position?

A The Disused Burial Ground Act, 1884, which has been modified by The Open Spaces Act, 1906, Section 4, will give you the information which you require for building on a Burial Ground.

It is a little difficult to answer your question about the vault under the floor of the Chapel; it is doubtful whether you would be allowed to use this as a habit-

able space, but your Local Authority would give you specific information on this subject.



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

RS

Dr. B. J. A. Bard

At a session of the Royal Society Empire Scientific Conference. Paper on THE DISSEMINATION OF SCIENTIFIC AND TECHNICAL INFORMATION TO INDUSTRY IN THE UNITED KINGDOM AND THE BRITISH COMMONWEALTH, by Dr. B. J. A. Bard, Secretary of the Industrial Research Committee of the Federation of British Industries, and Head of the FBI Industrial Research Secretariat.

B. J. A. Bard : Industry itself provides the most important means whereby the benefits of science are brought to the community; its development and prosperity demand a constant striving to improve the quality and variety of its products, to increase output, to reduce production costs, and to improve working conditions. The attainment of any one of these is progress, and is dependent on the technical staff, who must be in possession of the new knowledge on which the advance is based. It may therefore fairly be claimed that an ample and well regulated circulation of information is very necessary to technical progress in industry, and depends for its life blood on a rapid diffusion of knowledge. The question of the machinery whereby such new knowledge is assembled, published and disseminated to those interested or whom it may concern, absorbed by them and then integrated and digested with existing knowledge and technical material, is taken very much for granted. In fact this process does not occur of itself. It requires to be carefully organised at each stage. So far as industry is concerned, each separate unit, if in the long run it is to survive, and enhance, or even maintain its competitive position, must make its

own arrangements for the assembly and digestion of new knowledge. Furthermore each progressive industry has to be on the alert to ensure that information, from whatever source it may arise, that may concern and be of value even to a proportion of the individual units comprising the industry is recorded and brought to the notice of those units; in other words an information service is required for each industry as a whole. This is generally provided through an industry's research association where it exists.

New scientific knowledge arises as a result of research carried out in laboratories, on a field site or in the works, or indeed wherever appropriate, to investigate material phenomena, either fundamentally or as specific problems with a definite objective. The knowledge gained is reported somewhere in a statement recording the factual data obtained, the general conclusions reached, and the implication of the results. This report may be published to the world through one of the recognised channels, or may be forwarded direct to those who occasioned the investigation. In a limited number of cases such knowledge may be kept secret as part of a great process. The sum total of published material is now very large, and continues to grow at a rapid pace. Almost all fundamental research results are published in one or other of the very large number of scientific journals, and much of the applied research too reaches the light of day through various publications including patent specifications, trade and technical press and those of the professional and technical institutions. It will not be forgotten that under existing patent law the doctrine of "publication" precludes disclosed information from being patented. In the course of the 1939-1945 war a very considerable amount of information both scientific and technical has been collected in the service and production Ministries, and the Government has therefore a direct interest in this subject of the dissemination of information to industry, especially now that it has assembled so much technical and scientific information regarding German controlled industries as a result of the recent intelligence missions to the Continent.

The dividing line between "scientific information" and "technical information" is a fine one, the difference between them being that the former includes the results of scientific research apart from any necessary connection with an industrial or production objective, whilst the latter covers empirical facts related to or connected in some way with industrial materials, processes, plants or products, which are the result of applied knowledge, or maybe of practical experience without a known scientific basis. For the effective conversion of research results into industrial production there must be harmonious co-ordination between the two. Even if the new knowledge to be applied arises within an industrial concern itself, there are several stages, often intricate, between the completion of the research and the development of works scale production. If the new knowledge emanates from external sources or requires to be co-ordinated (as it generally does) with existing technical experience, the chain between its original dissemination and final application may be both long and complicated. Each link in the chain may involve the impact of the information upon a fresh mind as it is supplied, absorbed and re-emitted. The accuracy and efficiency of its original transmission is therefore of first importance. As it is rare for the dissemination to proceed without a summary or abstract form being employed at some stage, special care and skill is required to be certain that no distortion or material omission occurs, which may diminish or even nullify its value to those further along the chain, or may cause genuine seekers for information to overlook the full significance of the results.

Industry is catered for in this respect by a considerable number of Government, official, public, and private information and abstracting and library services which form vital

links in the dissemination of information within their own field of interest; some operate in a more general way and some restrict themselves to a particular branch of science or technical aspect of industry. Some issue regular reports and others hold themselves available to answer specific enquiries from information that they have collected or can obtain.

In Great Britain no organisation exists to cover comprehensively or indeed to be responsible for the whole field of scientific and technical information. Splendid work is being done by many individual but specialised bodies, who between them publish many thousands of technical and scientific publications, journals, abstracts and bibliographies every year. Often even in a restricted subject the number of articles may run into thousands in a year, including work carried out and published overseas. Although there is much co-operation and sometimes co-ordination between abstracting bodies, these are not completely correlated with one another, for on the one hand their fields of interest frequently overlap and on the other considerable tracts are adequately covered and some left uncharted altogether. Moreover much information, although available, is not readily accessible, and there are far too many places where valuable work may be published and yet only reach a small number of readers, none of whom may be sufficiently equipped to assess its value, specially if the journal is of limited circulation. There is far too great a possibility of published work being lost so far as the main body of science, and those in industry to whom it may be of value, are concerned. There would appear therefore to be scope for improvement and rationalisation in this sphere.

Furthermore there is no recognised channel for putting enquirers in touch speedily with the organisation or service that can best help them, although the DSIR has recently initiated an information department to cover the activities of the various DSIR establishments. In USA the Technical Advisory Service established during the war is continuing into the peace with the ambitious plan of evolving a world programme for the universal interchange of technical information. It is also understood that the USA Department of Commerce is establishing an office of Technical Service. It is not suggested that a super abstracting organisation is required in Great Britain; though there may be scope for some further kind of machinery to put enquirers in touch with the service that can best help them and to link up with the appropriate organisations in the various constituent members of the British Commonwealth, whose problems are discussed generally in the next paragraph.

To enable scientific and technical information throughout the Empire and Commonwealth to be effectively disseminated, any machinery set up for this purpose in Great Britain should maintain close links on a two-way basis with the various Empire and Commonwealth official bodies and would obviously keep in touch with the various scientific liaison offices of the Dominions in London and with the British Commonwealth Scientific office itself (at present in Washington U.S.A.). The strengthening of the Colonial Research Committee and the Colonial Products Research Council to provide adequate liaison would enable the Colonial Office to play its full part.

Such a chain linking up sources and users of scientific and technical information throughout the Commonwealth will nevertheless not be stronger than its weakest link. There is need, therefore, to emphasise once more the responsibility which falls on the industrial units to provide their own domestic arrangements in the shape of an information department to absorb the information relevant to their activities that can be acquired from the originating and abstracting sources. How this is best to be done with the limited number of scientists at present available is a separate problem.

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| 2-in. unscreened ballast | 117.58 | 117.58 | 117.58 | 117.58 | 117.58 | 117.58 | 126.09 |
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| Stoneware drainpipes (British standard, 2 tons and over) | 43.75 | 43.75 | 43.75 | 72.92 | 87.50 | 109.37 | 109.37 |
| Roofing tiles | 86.90 | 86.90 | 86.90 | 86.90 | 101.88 | 101.88 | 101.88 |
| Steel joists (basic sections ex mills) | 50.03 | 50.03 | 50.03 | 50.03 | 50.03 | 50.03 | 50.03 |
| Lime greystone | 57.65 | 57.65 | 57.65 | 57.65 | 67.65 | 67.06 | 67.06 |
| Sheet lead | 84.79 | 84.79 | 84.79 | 113.72 | 113.72 | 113.72 | 197.82 |
| Iron rainwater goods and soil pipes | 70.60 | 70.60 | 70.60 | 70.60 | 70.60 | 82.37 | 82.37 |
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GRADE CLASSIFICATIONS

| | | | | | | | |
|-------------------|----------|----------------------|----------------------|----------------------|----------|----------------------|----------------------|
| | A | A¹ | A² | A³ | B | B¹ | B² |
| Craftsmen | 2/6 | 2/5½ | 2/5 | 2/4½ | 2/4 | 2/3½ | 2/3 |
| Labourers | 2/0 | 1/11½ | 1/11½ | 1/11 | 1/10½ | 1/10 | 1/9½ |

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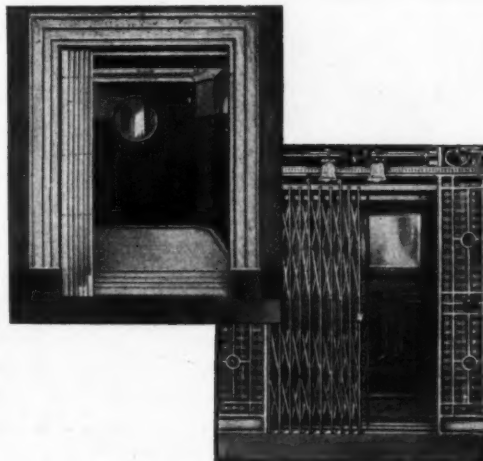
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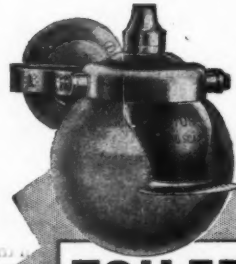


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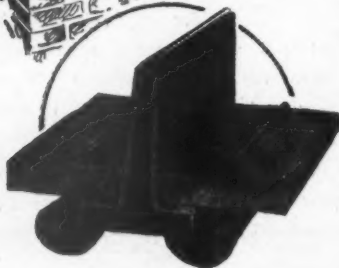
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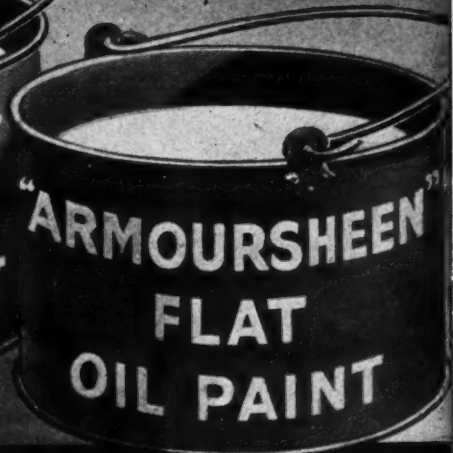
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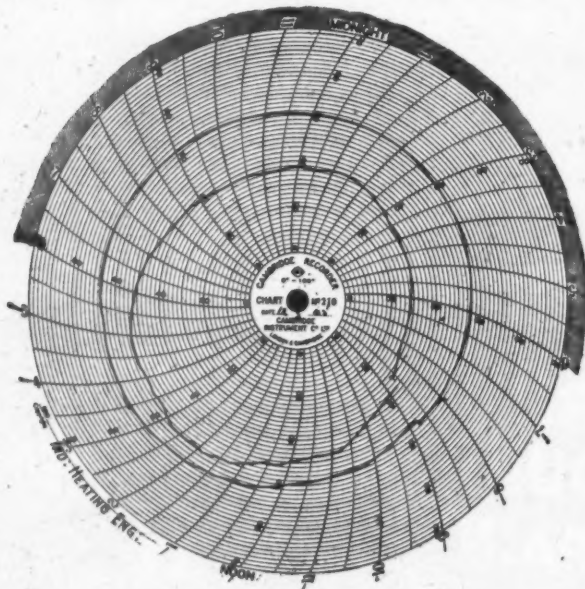
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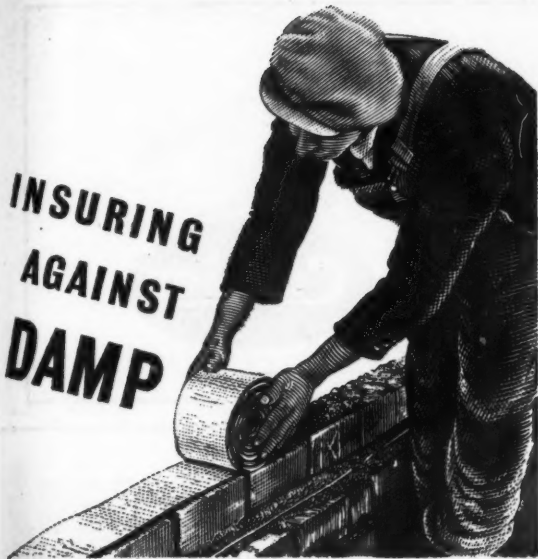
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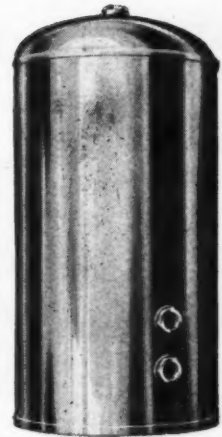
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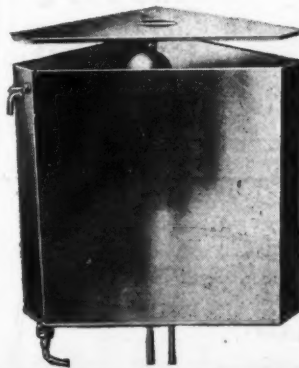
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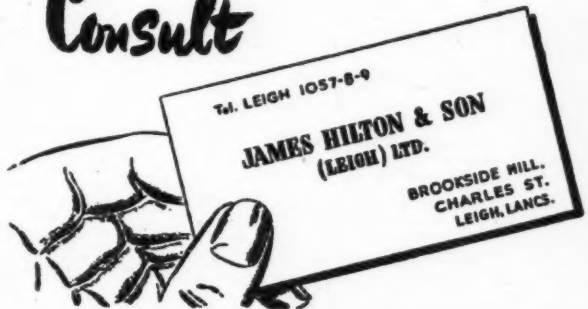
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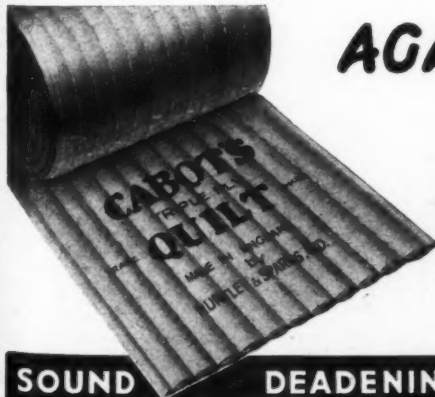
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CLASSIFIED ADVERTISEMENTS

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

Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, BAYON PLACE, LONDON, S.W.1. Tel.: STONES 5615. 994

LONDON COUNTY COUNCIL.

Applications are invited for the following positions:—

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:

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

(b) Preparing estimates and measuring repairs and minor alterations at schools of prices (experience of London County Council War Department or Office of Works Schedules).

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

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

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

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

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

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

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

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

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

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £30 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

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

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1. enclosing stamped addressed foolscap envelope. 947

LONDON COUNTY COUNCIL.

Required at the Brixton School of Building, Ferndale Road, S.W.4. as soon as possible, a Full-time TEACHER OF BUILDING, for the Senior School. Applicants should hold higher National Diploma or Certificate in Building, or have equivalent qualifications. Good experience in responsible capacity in building industry essential. Teaching experience a recommendation. Salary Burnham Scale, £300×£15 to £525 (men, plus London allowance, minimum £36 a year), and additions for training and qualifications as applicable. Commencing salary according to teaching and industrial experience. Applications forms from the Education Officer (T.1), County Hall S.E.1. (stamped addressed foolscap envelope necessary), returnable by 14th September, 1946. Members of E.M. Forces serving abroad should apply by letter. 747

URBAN DISTRICT COUNCIL OF EAST BARNET.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) Two ENGINEERING ASSISTANTS (Permanent), at salaries of £420, rising to £465 by £15 per annum, plus cost-of-living bonus, at present £59 16s. per annum, and London area weighting of £20 per annum, according to Grade IV of the National Scale of Salaries.

Applicants must have had considerable general experience of Municipal Engineering, and should be corporate members by examination of the Institution of Civil Engineers or the Institution of Municipal and County Engineers.

(b) One ARCHITECTURAL ASSISTANT (Temporary), for a period of not less than two years, at a salary of £420, rising to £465 by £15 per annum, plus cost-of-living bonus, at present £59 16s. per annum, and London area weighting of £20 per annum, according to Grade IV of the National Scale of Salaries.

Applicants should have had experience in the design and erection of municipal housing, and should be Associates of the Royal Institute of British Architects.

(c) Three ENGINEERING ASSISTANTS (Permanent), at salaries of £330, rising to £375 by £15 per annum, also cost-of-living bonus, at present £59 16s. per annum, and London area weighting of £20 per annum, according to Grade I of the National Scale of Salaries.

Applicants must have had good general experience of Municipal Engineering, and preference will be given to those who are corporate members by examination of the Institution of Civil Engineers or the Institution of Municipal and County Engineers.

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

Applications, endorsed "Engineering Assistant (a) or (c)," or "Architectural Assistant," as the case may be, stating age, qualifications, experience, present and past appointments, and accompanied by copies of three recent testimonials, must reach the undersigned by not later than Monday, 2nd September, 1946.

Canvassing, directly or indirectly, will be a disqualification, and applicants must disclose whether to their knowledge they are related to any member or senior officer of the Council.

C. M. BARNES, M.Inst., M. & Cy.E., M.B.S.I., Engineer and Surveyor.

Town Hall, Station Road, New Barnet, Hertfordshire. 743

BOROUGH OF CAERNARVON.

PERMANENT ARCHITECTURAL ASSISTANT.

Applications are invited for the position of Permanent Architectural Assistant, at a salary of £360, rising to £405, by annual increments of £15, plus war bonus.

Candidates should have had a thorough training, and be capable of preparing sketch plans, work drawings and details in connection with housing and other types of local authority buildings.

Preference will be given to candidates with parts of recognized architectural examination.

Applications, stating age, qualifications and experience, together with two recent testimonials, should reach the undersigned not later than Saturday, 31st August, 1946.

W. REES DAVIES, P.A.S.I., M.I.M.Cy.E., Borough Engineer and Surveyor.

Guild Hall, Caernarvon. 730

CITY OF PLYMOUTH EDUCATION COMMITTEE.

PLYMOUTH SCHOOL OF ART. Principal: LEWIS DUCKETT, M.C., A.R.C.A.

Applications are invited for the post of TEMPORARY LECTURER AND STUDIO INSTRUCTOR, in the Department of Architecture.

Applicants should be Associates of the R.I.B.A., and preferably have been trained in a recognized School of Architecture. Previous teaching experience desirable, and ability to give instruction in any of the subjects of the Intermediate and Final Examination of the R.I.B.A. The appointment is temporary in the first place, with the possibility of a permanent post if expected developments mature.

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Further particulars and form of application to be returned by the 31st August may be obtained on receipt of a stamped addressed envelope from

ANDREW SCOTLAND, Director of Education.

Plymouth. 731

URBAN DISTRICT COUNCIL OF ENFIELD.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) SENIOR ENGINEERING ASSISTANT. Candidates should be Corporate Members of the Institution of Civil Engineers or hold equivalent qualifications, and should have had good general Municipal engineering experience.

(b) SENIOR ARCHITECTURAL ASSISTANT. Candidates should be Associates of the Royal Institute of British Architects, and have good general experience.

The salary for both appointments will be in accordance with Grade V of the A.P.T. Division of the National Scales, £460-£510, plus cost-of-living bonus, at present £59 16s. per annum, and London weighting of £20 per annum.

The appointments will be subject to:—

(1) The Scheme of Conditions of Service adopted by the National Joint Council for Local Authorities, Administrative, Professional, Technical, and Clerical Services.

(2) To the Local Government Superannuation Act, 1937.

(3) The passing of a medical examination.

(4) Determination by one month's notice on either side.

Forms of application may be obtained from Mr. Frank Lee, Assoc.M.Inst.C.E., F.S.I., Engineer and Surveyor, "Percy House," 7, Little Park Gardens, Enfield, Middlesex, and should be returned to the undersigned on or before 2nd September, 1946, the envelope being endorsed "Senior Engineering Assistant" or "Senior Architectural Assistant."

Candidates must state whether they are related to any member or officer of the Council. Canvassing will disqualify.

J. WARING SAINSBURY, Clerk of the Council.

Public Offices, Enfield, Middlesex. 76

BUCKS COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

(a) Two SENIOR ASSISTANT ARCHITECTS. Qualified as Fellows or Associates of the R.I.B.A., and preferably holding a University degree or equivalent in architecture, and having specialized knowledge and experience, for one post, of contemporary architectural design, and, for the other, of contemporary building construction and organization. Salary scale in each case £600×£25-£800 p.a., plus bonus (now £59 19s. per annum), commencing figure in accordance with qualifications and experience.

(b) Six ASSISTANT ARCHITECTS. Preferably members of the R.I.B.A. by examination and/or holding equivalent academic qualifications, and having experience of contemporary architectural and/or structural design. Salary scales between £330 and £600 p.a., plus bonus as above, according to qualifications and experience.

(c) One CHIEF QUANTITY SURVEYOR. Qualified as a member of the Surveyor's Institute by examination, and possessing suitable experience in the practice of quantity surveying, preferably under a local authority. The duties will entail taking charge of a quantity surveying section under the County Architect. Salary scale £600×£25-£800 p.a., plus bonus as above, commencing figure in accordance with qualifications and experience.

(d) One ASSISTANT QUANTITY SURVEYOR. Qualified as a member of the Surveyor's Institute or at least having passed the intermediate examination of that Institute, and having appropriate experience in the practice of quantity surveying. Salary £420×£15-465 p.a., plus bonus as above.

(e) Two BUILDING SURVEYORS (Maintenance), with practical training and a sound knowledge of building trades, competent to prepare reports, specifications, estimates and drawings for maintenance repairs to all county buildings, and to supervise such works; may be required to act as clerk of works for new buildings. Candidates should own or be able to drive a motor vehicle. Travelling allowance will be paid. Salaries will be on scales between £360 p.a. and £465 p.a., plus bonus as above, according to qualifications and experience.

All appointments will be superannuable and subject to medical examination. Unless otherwise stated local government experience is not essential. Canvassing will be a disqualification. Applications from persons at present serving in the Forces should state their position with regard to demobilization.

Details of these appointments and forms of application may be obtained from F. A. C. MAUNDER, F.R.I.B.A., A.M.T.P.I. County Architect, County Offices, Aylesbury, to whom applications must be delivered not later than Thursday, 29th August, 1946.

GUY R. CROUCH, Clerk of the Bucks County Council.

County Hall, Aylesbury. 1st August, 1946. 726

MIDDLESBROUGH EDUCATION COMMITTEE.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for appointment as Senior Architectural Assistant in the Architect's Section of the Education Department. Salary in accordance with Grade VI of the National Joint Council Scales (£355-£600 per annum), plus cost-of-living bonus. Applicants must be Associates of the Royal Institute of British Architects, and have had considerable experience in the design and construction of modern educational buildings. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937. Applications, giving full details of age, training, qualifications, present and previous appointments, type of experience, together with copies of not more than three recent testimonials, should be delivered to the Director of Education, Education Offices, Woodlands Road, Middlesbrough, by not later than Friday, 6th September, 1946. Canvassing will disqualify.

E. C. PARR, Town Clerk.

Town Clerk's Office, Middlesbrough. August, 1946. 727

COUNTY BOROUGH OF SMETHWICK.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Architectural Section of the Borough Engineer's Department. Salary in accordance with Grades II and III of the National Joint Council Scales, commencing at £360 per annum, rising by annual increments of £15 to £435 per annum, plus cost-of-living bonus (at present at the rate of £59 16s. per annum).

Preference will be given to candidates who are Registered Architects and/or have passed the Associatehip Examination of the Royal Institute of British Architects.

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

Applications, endorsed "Architectural Assistant" on the form to be obtained from the Borough Engineer, accompanied by copies of two recent testimonials, must be delivered to the Borough Engineer, Council House, Smethwick, not later than Wednesday, 28th August, 1946. Canvassing, directly or indirectly, will disqualify.

E. L. TWYXCROSS, Town Clerk.

Council House, Smethwick. 2nd August, 1946. 728

COUNTY BOROUGH OF WALSALL.

PUBLIC WORKS DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT (Permanent) at a salary of £460, rising to £510 (Grade V of the Administrative, Professional, Technical Division of the National Joint Council Scales of Salaries). Candidates must be A.R.I.B.A., and experienced in Housing, Schools and General Work.

The above salary is basic salary, and is exclusive of cost-of-living bonus, at present £59 16s. per annum.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than 7th September, 1946.

M. E. HABERSHON, Borough Engineer and Surveyor.

Council House, Walsall. 12th August, 1946. 792

COUNTY OF WARWICK.

ARCHITECTS' DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR'S ASSISTANT, on the established staff, at a commencing salary of £220 per annum, rising by annual increments of £20 to £460 per annum. This scale is exclusive of cost-of-living bonus, at present payable amounting to £59 16s. per annum.

Applicants should have a good technical education, and will be required for measuring and adjusting variations under building contracts and preparing approximate estimates.

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

Forms of application can be obtained from, and all applications must reach the County Architect, Shire Hall, Warwick, not later than the 30th August, 1946.

L. EDGAR STEPHENS, Clerk of the Council.

Shire Hall, Warwick. 815

CITY OF COVENTRY.

CITY ARCHITECTURAL DEPARTMENT.

The Corporation of Coventry invites applications from duly qualified persons for the following whole-time permanent appointments, in the City Architectural Department:—

Five ASSISTANT ARCHITECTS. Salary on Grade A.P.T. IV (commencing at £420, and rising by three annual increments of £15 to a maximum of £465 per annum).

One ASSISTANT ARCHITECT. Salary on Grade A.P.T.I. (commencing at £330 and rising by three annual increments of £15 to a maximum of £375 per annum).

One JUNIOR ARCHITECTURAL ASSISTANT. Salary on General Division of the National Scheme of Conditions of Service for Local Government Officers (according to age).

Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to 23s. per week for men and 18s. 6d. for women. The cost-of-living bonus in the case of the Junior appointment will vary according to age.

The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's medical referee. The person appointed will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pensions Fund.

Application must be made on the form obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials or names of two persons to whom reference may be made, not later than Saturday, the 31st August, 1946.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON, City Architect.

1a, Warwick Row, Coventry. 15th August, 1946. 716

THE POLYTECHNIC, REGENT STREET.

SCHOOL OF ARCHITECTURE.

President of the School: SIR BANISTER FLETCHER, D.Lit.(Lond.), P./R.I.B.A., M.Arch., F.S.A., F.R.S.L., F.S.I. Head of the School: JOHN S. WALKDEN, A.R.I.B.A., M.T.P.I., F.R.I.A.S.

DAY SCHOOL.

The Day School of Architecture is fully recognized by the Royal Institute of British Architects and by the Town Planning Institute. The Final Diploma Examination of the School is a qualification for registration under the Architects (Registration) Act.

The course includes all aspects of Architectural Education, including Town Planning, Interior Design, Structural Design and Equipment, and the Science of Building Materials.

There are also full-time courses in Building, Quantity and Valuation Surveying, and Building Technology.

Session commences 17th September, 1946.

EVENING SCHOOL.

A wide range of professional courses are open to pupils and assistants in the Architectural, Town Planning, and Surveying professions and in the Building Industry.

Prospectuses, giving full particulars of courses, fees, etc., may be obtained on application to the undersigned.

J. C. JONES, Director of Education.

The Polytechnic, 309, Regent Street, London, W.1. 773

ESSEX EDUCATION COMMITTEE.

SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART.

DEPARTMENT OF ARCHITECTURE AND BUILDING.

SESSION 1946-1947.

LECTURES ON HOUSING AND PLANNING LAW AND CENTRAL AND LOCAL GOVERNMENT.

JOHN J. CLARKE, M.A., F.S.S., of Gray's Inn and the Northern Circuit, Barrister-at-Law. Legal Member of the Town Planning Institute. Author of "Local Government of the United Kingdom"; "Outlines of Planning and Housing"; "The Law of Housing and Planning," etc.

Wednesday Evenings, 6.30 p.m. to 9.30 p.m. Full particulars of a Course of Lectures on contemporary Housing and Planning Law and on Central and Local Government, covering the examination requirements of the Town Planning Institute, the Royal Institution of Chartered Surveyors, the Institution of Municipal and County Engineers, and similar examining bodies, can be obtained on application to the Head of the Department of Architecture and Building at the College. 776

CITY OF CARDIFF EDUCATION COMMITTEE.

THE TECHNICAL COLLEGE.

Principal: A. HARVEY, Ph.D., B.Sc., F.Inst.P.

THE WELSH SCHOOL OF ARCHITECTURE.

Head of Department: LEWIS JOHN, M.A., B.Arch., F.R.I.B.A.

SESSION 1946-47.

(Commencing on Tuesday, 1st October, 1946).

COURSES IN ARCHITECTURE.

(1) Three years' Full-time Day Course, leading to the Certificate. (2) Full-time Day Course, consisting of two Sessions following the above and leading to the Diploma. (3) Full-time Course of six years' duration, leading to the Degree of Bachelor of Architecture.

The Department is fully recognized by the Royal Institute of British Architects. For further particulars of Full-time and Part-time Courses, Entrance Examination, Scholarships, Fees, etc., apply to the Principal. Application forms for Entrance Scholarship Examination, duly filled up, must be received before 12th September.

W. J. WILLIAMS, Director of Education.

City Hall, Cardiff. 775

KINGSTON-UPON-HULL EDUCATION AUTHORITY.

COLLEGE OF ART AND CRAFTS.

KINGSTON-UPON-HULL SCHOOL OF ARCHITECTURE.

Principal: S. I. HEMMING, A.R.C.A.

Required, to commence duty as soon as possible, a Full-time LECTURER AND STUDIO INSTRUCTOR. Applicants should be members of the R.I.B.A., preferably with the Degree or Diploma of a recognized School of Architecture. Previous experience in lecturing on architectural subjects, or professional practical experience, is desirable.

Salary in accordance with the Burnham Scale. In fixing the initial salary account will be taken of time previously spent in teaching and in professional practice.

Particulars of appointment and application forms (which must be returned within fourteen days of the date of this issue) can be obtained on receipt of a stamped, addressed, foolscap envelope from the Director of Education, Education Offices, Guildhall, Kingston-upon-Hull. 793

BOROUGH OF ROYAL LEAMINGTON SPA.

DEPARTMENT OF DIRECTOR OF HOUSING.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment, at a basic salary of £255, rising by annual increments of £15 to £300, plus cost-of-living bonus, at present approximately £60 per annum.

The appointment will be on the unestablished staff of the Corporation, terminable by one month's notice on either side.

Candidates should have reached the standard of the intermediate examination of the R.I.B.A., and be experienced in the preparing of working drawings and details, particularly in relation to housing.

Applications must be made on the appropriate forms, which can be obtained at the address given below, and must be returned, together with copies of not more than two testimonials, before 12 noon on Saturday, the 21st September, 1946, endorsed "Assistant Architect."

Canvassing in any form is prohibited, and will be regarded as a disqualification.

H. FEDESKI, A.R.I.B.A., Dip.T.P., A.M.T.P.I., Director of Housing.

Town Hall Annexe, 3, Regent Grove, Leamington Spa. 13th August, 1946. 794

COUNTY OF LINCOLN—PARTS OF KESTEVEN.

COUNTY ARCHITECTS' DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, in the County Architect's Department.

Salary £360 per annum, rising by annual increments of £15 to a maximum of £405 per annum, plus cost-of-living bonus of 23s. per week on the Council's scale.

Experience in Education and General County work is desirable.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical certificate, and to the termination of the appointment by one month's notice in writing on either side.

Applications, stating age, present appointment, experience and qualifications, together with copies of two recent testimonials, should be sent to the undersigned not later than the 31st August, 1946.

J. E. BLOW, Clerk of the County Council.

County Offices, Sleaford, Lincs. 779

APPOINTMENT OF ARCHITECTS AND PLANNING OFFICERS IN THE BRITISH WEST INDIES.

Applications are invited for three temporary, non-pensionable appointments, as described below, for qualified Architects and Planning Officers. Other similar posts are likely to be available later. All of them involve what is to a large extent pioneer work, particularly in the field of town planning and housing. Nearly all West Indian Colonies, in the last two years, have introduced legislation enabling them to carry out simple town planning schemes and slum clearance and housing developments, including schools and community buildings, with the aid of funds provided under the Colonial Development and Welfare Act. Outline planning schemes for the chief towns are now in preparation under the direction of the Town Planning Adviser to the Comptroller for Development and Welfare.

The building industry is in a state of transition from the primitive to the scientific, and there is consequently great scope for architects combining imagination with experience of building economy and field organization. Housing is the most pressing problem, so it is important that those appointed should be at least interested, if not highly experienced, in the technical and sociological problems involved.

The climate is sub-tropical and seldom unpleasantly hot. Cost-of-living varies in the different colonies, but is usually a little higher than in England. Income-tax rates are lower. Free passages once each way. Local allowances are payable in addition to the salaries quoted.

Applicants should write at once to The Director of Recruitment, Colonial Service, 15, Victoria Street, London, S.W.1, giving their qualifications and experience, age, and particulars of their present employment.

BUILDING RESEARCH OFFICER TO THE COMPTROLLER FOR DEVELOPMENT AND WELFARE IN THE WEST INDIES.

Duties.—The officer will be one of the Comptroller's staff of technical advisers, with headquarters in Barbados. He will be expected to travel regularly to all parts of the British West Indies. Main responsibilities will be co-ordination of building and housing research programmes in the different colonies; study of industrial economics related to the use of local materials and to imported or locally produced standard workshop units; organization of field tests; design of experimental building types for houses, schools and various community buildings. He will work under the direction of the Comptroller's Town Planning Adviser for approximately the first six months, and may thereafter be required to succeed to some of this officer's advisory duties, particularly in the housing field. He will be required to collaborate with the Comptroller's advisers in Economics, Health, Education, Labour and Social Welfare; with Directors of Public Works in West Indian colonies; and with Planning Officers and Architects attached to Governments of the various colonies.

Qualifications.—Fully qualified chartered architect, with at least two years' experience in building research connected with Government or private organizations; at least six years' general post graduate experience in design and construction of buildings. Since housing is an important part of the building programme, a town planning qualification, or some experience of Government housing technique, will be an advantage. Specialist experience in building research, however, is of first importance.

Terms of Appointment.—The appointment will be for three years, renewable by agreement. The salary will be from £1,000 to £1,400 per annum, according to experience and consequent scope of duties.

PLANNING OFFICER, JAMAICA.

Duties.—Chief technical officer to the Jamaica Planning and Housing Authority (to be formed shortly). Collaboration with the Town Planning Adviser to the Comptroller for Development and Welfare in preparing a planning survey and draft town planning proposals for Kingston and Spanish Town (population 120,000). Technical advice in interpreting planning schemes for Kingston and other towns. Architectural advice in layout and design of housing schemes and other developments connected with planning schemes.

Qualifications and Experience.—Chartered architect, fully qualified as a town planner, with good experience in the execution of town planning and housing schemes.

Terms of Appointment.—For three years, renewable by agreement. Salary £1,000-£1,100 a year, according to experience.

GOVERNMENT ARCHITECT FOR THE WINDWARD ISLANDS.

Duties.—Responsibility for design and execution of housing schemes, schools, buildings for agricultural, educational and other services in collaboration with the Public Works Departments of the islands of Grenada, St. Lucia, St. Vincent and Dominica. Advice in interpretation and detailed development of recently prepared outline planning schemes for the chief towns. Direction of building research studies and building experiments.

Qualifications and Experience.—Chartered architect, with at least six years' experience in design and construction of buildings, and preferably with good experience of housing technique. Town planning qualification an advantage, but

not essential.

Terms of Appointment.—Three years' contract, renewable by agreement. Salary £900-£1,000 a year, according to experience. 754

BOROUGH OF SOUTHGATE. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the undermentioned appointments, in the Borough Engineer and Surveyor's Department:—

(a) One ARCHITECTURAL ASSISTANT, on the Established Staff. Salary, etc., in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, i.e., £460-£510 per annum plus £20 London area weighting.

(b) One ARCHITECTURAL ASSISTANT (Temporary). Salary £350 per annum.

In addition, a cost-of-living bonus (at present £59 16s. per annum) is payable for each appointment.

Applicants for appointment (a) should be Members of the Royal Institute of British Architects, or hold an equivalent qualification. Previous municipal experience, particularly in housing, will be an advantage.

Applicants for appointment (b) should have had previous municipal experience, and preference will be given to candidates who are members of the Royal Institute of British Architects or hold an equivalent qualification, although candidates who have made specific progress towards obtaining a recognized professional qualification will be considered.

Appointment (a) will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful applicants for both appointments will be required to pass satisfactorily a medical examination. Appointment (b) will be for a period of not exceeding two years in the first instance. Both appointments will be terminable by one month's notice on either side.

Candidates who to their knowledge are related to a member or senior officer of the Council must disclose the relationship in their applications. Failure to do so will disqualify or render the candidate appointed liable to dismissal without notice.

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

Applications, stating age, examination qualifications, present and past appointments, with dates and salaries, and particulars of experience, accompanied by copies of three recent testimonials, and endorsed on the envelope "Architectural Assistant (a)," or "Architectural Assistant (b)" (as may be appropriate), must reach Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, N.13, by not later than Friday, 6th September, 1946.

GORDON H. TAYLOR, Town Clerk. Southgate Town Hall, Palmers Green, N.13. 7th August, 1946. 746

CITY OF COVENTRY.

CITY ARCHITECTURAL DEPARTMENT.

The Corporation of Coventry invites applications from qualified persons for the whole-time permanent appointment of SENIOR QUANTITY SURVEYOR, in the City Architectural Department.

The salary will be on Grade A.P.T. IV (commencing at £420 and rising by three annual increments to a maximum of £465 per annum).

Salary increments are subject to satisfactory service. The above salary is exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to £59 19s. 3d. per annum.

The post is subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Referee. The person appointed will be required to contribute to the Coventry Municipal Officers', Widows' and Orphans' Pension Fund.

Applications must be made on the form obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials or names of two persons to whom reference may be made, not later than Thursday, the 12th September, 1946.

D. E. E. GIBSON, City Architect.

1a, Warwick Row, Coventry. 811 22nd August, 1946.

THE ARCHITECTS' JOURNAL LIBRARY OF INFORMATION SHEETS.

Applications are invited for appointment of TECHNICAL ASSISTANT.

Applicants must be first-class draughtsmen, possess a sound knowledge of building practice, and be interested in the preparation of technical data.

Salary £300 to £500 per annum, according to qualifications and experience. Applications may be made by members of H.M. Forces expecting demobilisation by October, 1946.

THE TECHNICAL EDITOR.

The Architectural Press, Ltd., 45, The Avenue, Cheam, Surrey. 87

MONMOUTHSHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of CHIEF QUANTITY SURVEYOR, at a salary in accordance with Grade VII of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £575 per annum, rising by annual increments of £25 to a maximum of £650 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should be members of the Surveyors' Institution (Quantities Section), and should have wide experience in preparing estimates and bills of quantities, and in dealing with contractors' accounts, etc. Previous experience with a local Government Authority is essential.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to the Regulations of the Council in force from time to time governing their Administrative, Technical and Clerical Staff, and will be determinable by one month's notice on either side. The successful candidate will be required to pass a medical examination.

Forms of application and conditions of service can be obtained from the undersigned. Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than first post on Monday, 26th August, 1946.

VERNON LAWRENCE, Clerk of the Council.

County Hall, Newport, Mon. 747

Amended Advertisement.

NORTHAMPTONSHIRE COUNTY COUNCIL

APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

Applications are invited from Registered Architects for the appointment of Deputy County Architect.

The initial salary for the post is £750, rising by annual increments of £25 to £900 per annum (no cost-of-living bonus payable).

Applicants should have had experience in the Architect's Department of a local authority, and should be capable of dealing with the general administration thereof and of controlling technical and administrative staff.

The appointment will be terminable by three months' notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Forms of application embodying further particulars of the appointment may be obtained from the County Architect, County Hall, Northampton, to whom applications, endorsed "Deputy County Architect," and accompanied by a copy of one recent testimonial, must be delivered not later than 17th September, 1946.

J. ALAN TURNER, Clerk of the County Council.

County Hall, Northampton. 748 2nd August, 1946.

BOROUGH OF WALTHAMSTOW.

BOROUGH ARCHITECT'S DEPARTMENT.

ARCHITECTURAL AND PLANNING ASSISTANTS.

Applications are invited for the following appointments:—

(1) TWO ARCHITECTURAL ASSISTANTS. Salary (Grade III): £410-£415-£455 per annum.

(2) TWO PLANNING ASSISTANTS. Salary (Grade I): £350-£415-£395 per annum.

Cost-of-living bonus, at present £59 19s. 3d. per annum, will be payable in addition to the above salaries.

The appointments are on the permanent staff, and are subject to the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

The appointments will be in accordance with the National Joint Councils Scheme of Conditions of Service, and will be terminable by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must reach the undersigned, endorsed with the name of the appointment, not later than Saturday, 31st August, 1946.

Canvassing in any form will be deemed a disqualification, and applicants must disclose any relationship to any member or official of the Council.

G. A. BLAKELEY, Town Clerk.

Town Hall, Walthamstow, E.17. 848 14th August, 1946.

HERTFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF THREE ASSISTANT ARCHITECTS.

Applications are invited from members of the R.I.B.A. for the appointment of Assistant Architects, at a salary of £360, rising to £405 p.a. by annual increments of £15, in accordance with the National Scale, plus cost-of-living bonus, which is at present £59 16s. per annum.

Duties will embrace the design and maintenance of educational buildings. Applications are welcomed from Architects with a lively intelligence and a contemporary outlook. They need not necessarily have had lengthy office experience.

Service in H.M. Forces will be regarded as an additional qualification.

The appointment will be subject to the Local Government Superannuation Act, and the successful applicants will be required to pass a medical examination.

Applications, stating age, training, experience and qualifications, together with three references, should reach the undersigned not later than Saturday, 14th September, 1946.

P. ELTON LONGMORE,

Clerk of the County Council.

County Hall, Hertford. 777

YEovil AND DISTRICT JOINT TOWN PLANNING COMMITTEE.
TOWN PLANNING OFFICER.

Applications are invited for the appointment of a qualified Town Planning Officer to the above Committee, at a salary of £555 p.a., rising, subject to satisfactory service, by two annual increments of £20 and one of £25 to a maximum of £600 p.a., plus current war bonus (at present £59 16s. p.a.).

The successful applicant will be expected to provide a car, and a car allowance of £100 p.a. will be made.

Applicants must have had experience of Planning Schemes and be fully conversant with the Town and Country Planning Acts and Orders thereunder. Preference will be given to candidates who have passed the Associate Membership examination of the Town Planning Institute.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, the successful candidates being required to pass a medical examination.

Applications, stating age, whether married or single, qualifications, experience, etc., and endorsed "Town Planning Officer," to be sent to the undersigned, accompanied by copies of three recent testimonials, not later than Saturday, 21st September, 1946.

H. C. C. BATTEN,

Clerk to the Joint Committee.

Church House, Yeovil, Somerset. 812

PLYMOUTH REGIONAL JOINT PLANNING COMMITTEE.

The above-named Committee invite applications for the post of ARCHITECTURAL ASSISTANT, at a salary of £375 per annum, rising by two annual increments to £405 per annum, plus bonus (at present £59 16s.), together with a travelling allowance in accordance with the Devon County Council scale.

Applicants should have had practical experience in architectural work, and preference will be given to candidates with recognized qualifications.

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

Written applications, stating age, qualifications, and experience, accompanied by copies of two recent testimonials, must be forwarded so as to reach the undersigned not later than the 31st August, 1946.

PERCY T. LOOSEMORE,

For Joint Clerks.

Council Offices, Plympton. 778

METROPOLITAN BOROUGH OF PADDINGTON.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, on the permanent staff of the Borough Engineer and Surveyor's Department of the Council, at a commencing salary of £460 per annum, plus cost-of-living bonus, at present £59 16s. per annum. The post will be graded under the National Scales of Salaries.

Applicants must be Registered Architects, preferably members (by examination) of the R.I.B.A., and have had extensive experience in municipal work, including working class flats. London experience will be an advantage.

Forms of application and conditions of appointment can be obtained from the undersigned, to whom applications are to be returned not later than Monday, 9th September, 1946.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2. 795

NORTHAMPTONSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, in the County Architect's Department:—

(1) **ENGINEERING ASSISTANT.** A.P.T., Grade VI, £535 per annum, rising to £600 per annum, with cost-of-living bonus (at present £59 16s. per annum) in addition.

Applicants must be qualified Engineers, and have had extensive experience in the design and maintenance of low pressure heating and domestic hot water installations and general electrical installations, more particularly those in cinemas.

(2) **PERMANENT ARCHITECTURAL ASSISTANT.** A.P.T., Grade III, £390 per annum, rising to £435 per annum, with cost-of-living bonus (at present £59 16s. per annum) in addition.

Applicants must be Registered Architects, not less than 30 years of age, and should have had a good general experience in the work of an Architect's office.

(3) **TEMPORARY ARCHITECTURAL ASSISTANT.** Salary £400 per annum, with cost-of-living bonus (at present £59 16s. per annum) in addition.

Applicants must be Registered Architects, not less than 25 years of age, and should have had experience in dealing with school buildings under a local authority.

Appointments (1) and (2) will be subject to the provisions of the Local Government Superannuation Act, 1937, and, as regards all three appointments, the selected candidate will be required to pass a medical examination before the appointment is confirmed.

Forms of application embodying further particulars of each appointment may be obtained from the County Architect, the County Hall, Northampton.

Applications for appointments (1) and (2), endorsed "Engineering Assistant," or "Permanent Architectural Assistant," as the case may be, must be delivered to the County Architect not later than 17th October, 1946.

Applications for appointment (3), endorsed "Temporary Assistant," must be delivered as above not later than 17th September, 1946.

J. ALAN TURNER,

Clerk of the County Council.

County Hall, Northampton. 724

CANTERBURY BOROUGH OF CANTERBURY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the City Architect's Department:—

(1) **ARCHITECTURAL ASSISTANT (Temporary).** Grade III salary of £390 x £15 = £435 per annum.

Applicants must be A.R.I.B.A., and should have had experience on educational buildings.

(2) **ARCHITECTURAL ASSISTANT (Temporary).** Grade I salary of £330 x £15 = £375 per annum.

Preference will be given to applicants who are A.R.I.B.A., and have some experience of housing work.

Cost-of-living, at present £59 16s. per annum, is payable.

The appointments are subject to the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination. Service may be terminated by one month's notice on either side.

Applications, stating age, qualifications and experience, together with the names of three persons to whom reference may be made, should be forwarded to the City Architect, Mr. L. Hugh Wilson, A.R.I.B.A., A.M.T.P.I., Municipal Buildings, Dane John, Canterbury, not later than Friday, 13th September, 1946.

J. BOYLE,

Town Clerk.

Municipal Buildings, Canterbury. 810

CHESTERFIELD RURAL DISTRICT COUNCIL.

ENGINEER & SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **ARCHITECTURAL ASSISTANT.** Salary £420, rising to £465 per annum. Applicants must be Registered Architects, and preference will be given to those who are Associate Members of the R.I.B.A. Experience of housing estate design and of the measurement of building work is desirable.

(b) **ENGINEERING ASSISTANT.** Salary £390, rising to £435 per annum. Applicants must hold a University Degree in Engineering or be corporate members of the Institution of Civil Engineers or of the Institution of Municipal and County Engineers. Experience of the design of works of sewerage and sewage disposal and of general municipal engineering is desirable.

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

Applications, giving two references, should be delivered to the undersigned not later than the 12th day of September, 1946.

J. B. WKELEY, M.Eng., A.M.Inst.C.E.,

Barister-at-Law,

Engineer and Surveyor to the Council.
Rural Council House, Chesterfield, Derbs. 785

THE COUNTY COUNCIL OF CLACKMANNAN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of QUANTITY SURVEYOR. The scale of salary will be £400 by £25 to £450 per annum.

Applicants should preferably be members of the Surveyors' Institute, and should be experienced in the preparation of estimates, specifications, and schedules of quantities, remeasurements, and the adjustment of final accounts.

The appointment will be subject to the Local Government Superannuation (Scotland) Act, 1937, and the person selected will be required to undergo a medical examination prior to appointment.

Applications, stating age, qualifications and experience, with copies of not more than three recent testimonials, should be lodged with the undersigned not later than 7th September, 1946.

N. A. SCORGIE,

County Clerk.

County Buildings, Alloa.

8th August, 1946.

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PEMBROKESHIRE JOINT PLANNING COMMITTEE.

APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited for the appointment of a Senior Planning Assistant to the above Committee, at a salary (in accordance with Grade IV of the National Joint Council scales) of £420 by £15 to £465 per annum, plus current cost-of-living bonus, at present £59 16s. per annum.

Candidates must have had considerable experience in the preparation of Statutory Planning Schemes, and should be Corporate Members of the Town Planning Institute, and preference will be given to applicants who are also members of a professional institution of standing.

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

Applications, endorsed "Senior Planning Assistant," stating age, qualifications, present and previous appointments and experience, and accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than Monday, 16th September, 1946.

W. E. BUFTON,

Clerk to the Pembrokeshire Joint Planning Committee.

County Offices, Haverfordwest.

Pembrokeshire.

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Amended Advertisement.

BOROUGH OF ERITH.

APPOINTMENT OF TWO TEMPORARY PLANNING ASSISTANTS.

Applications are invited for the above appointments on the staff of the Borough Engineer and Surveyor, at a salary each in accordance with the National Scale A.P.T. II, commencing at £360, rising by annual increments of £15 to a maximum of £405 per annum, plus London area weighting £20, plus war bonus, at present £59 16s. per annum, present total £439 16s. per annum.

Candidates should have had experience in the preparation of planning schemes, and preference will be given to holders of the intermediate examination of the Town Planning Institute.

The persons appointed will be required to work under the direction of the Senior Town Planning Assistant, in the preparation of a complete Civic Survey and new planning proposals for the Borough.

The appointments will be subject to the National Conditions of Service, to the Council's Regulations governing temporary staff, to one month's notice in writing on either side, and to the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Applications must be on the form to be obtained from Mr. John H. Clayton, Borough Engineer and Surveyor, Council Offices, Erith, Kent, and be delivered to him not later than Monday, the 23rd September, 1946.

Canvassing, either directly or indirectly, will disqualify.

J. A. CROMPTON,

Town Clerk.

Council Offices, Erith, Kent.

15th August, 1946.

785

THE UNIVERSITY OF MANCHESTER.

Applications are invited for the following posts, in the School of Architecture:—

TWO TEMPORARY LECTURESHIPS.

TWO TEMPORARY ASSISTANT LECTURESHIPS.

Duties to commence 29th September, 1946, or as soon thereafter as possible. The stipend attached to the post of Assistant Lecturer is £350 per annum, rising according to scale. The commencing stipend of the Lecturers will be according to qualifications and experience, but will be not less than £500 per annum, rising according to scale. All applications should be sent not later than 9th September to the Registrar, The University, Manchester, 13, from whom further particulars may be obtained.

789

COUNTY BOROUGH OF DERBY.
BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments on the permanent staff, in accordance with the National Scale of Salaries:—

- (a) CHIEF ASSISTANT ARCHITECT. Grade VIII, A.P. and T. Division. Salary £625-£700.
- (b) CHIEF ASSISTANT ARCHITECT (Town Planning and Architectural Work). Grade VIII, A.P. and T. Division. Salary £625-£700.
- (c) TWO ASSISTANT ARCHITECTS. Grade VII, A.P. and T. Division. Salary £575-£650.
- (d) FIVE ASSISTANT ARCHITECTS. Grade IV, A.P. and T. Division. Salary £420-£465.
- (e) FIVE JUNIOR ARCHITECTS. Grade I, A.P. and T. Division. Salary £330-£375.
- (f) ONE CHIEF QUANTITY SURVEYOR. Grade VIII, A.P. and T. Division. Salary £625-£700.
- (g) THREE SENIOR QUANTITY SURVEYORS. Grade VI, A.P. and T. Division. Salary £535-£600.
- (h) ONE JUNIOR QUANTITY SURVEYOR. Grade IV, A.P. and T. Division. Salary £420-£465.
- (i) ONE CLERK OF WORKS. Grade III, A.P. and T. Division. Salary £390-£435.

Plus cost-of-living bonus in all cases; at present £59 16s. (male).

Applicants for:—

- (a) should be Associate R.I.B.A., with good experience of Architectural work, including Hospitals and Public Buildings, undertaken by a Local Authority;
- (b) should be A.M.T.P.I. and A.R.I.B.A., with practical experience in Town Planning;
- (c) should be Associates R.I.B.A., with good experience of work undertaken by a Local Authority;
- (d) should have passed the Intermediate Examination of the R.I.B.A., and have had good general Architectural experience;
- (e) should have passed the Preliminary Examination of the R.I.B.A., and have had experience in general Architectural work;
- (f) must be a Chartered Quantity Surveyor, with extensive experience of all classes of work undertaken by a Local Authority;
- (g) should be P.A.S.I. (Quantities Section) or prospective, and have had experience in the preparation of quantities, specifications, site measuring, estimates and final accounts.
- (h) should be fully experienced in working-up and accustomed to the requirements of a quantity surveyor's office.
- (i) should be fully experienced in Municipal works, and have a sound knowledge of all building trades.

Each appointment will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, indicating clearly the appointment concerned, should be tabulated, showing age, qualifications, present salary, previous experience, and date when available, accompanied by copies of three recent testimonials, and delivered to Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, to arrive not later than Friday, 6th September, 1946.

Canvassing, directly or indirectly, will be a disqualification.

C. ASHTON, M.A.,
Town Clerk.

Market Place, Derby.
8th August, 1946. 800

COUNTY BOROUGH OF DUDLEY.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the staff of the Borough Architect's Department.

- ARCHITECTURAL ASSISTANTS.
- (a) Salary £360-£405. Grade II (A.P.T. Division of National Joint Council).
- (b) Salary £330-£375. Grade I (A.P.T. Division of National Joint Council).

The above salaries are subject to the addition of a cost-of-living bonus, at present £59 16s. per annum. Applicants for appointment (a) must be Registered Architects, and should have passed the final examination of the R.I.B.A. and possess a sound knowledge of the construction and design of all types of public buildings. Previous experience in a Municipal office would be an advantage. Applicants for appointment (b) should have passed the intermediate examination of the R.I.B.A., and possess a sound architectural training.

The appointments are permanent, and the selected applicants will be required to pass a medical examination.

Applications, stating age, qualifications, past experience and present appointment, together with the names of two persons to whom reference may be made, should be sent to the under-mentioned not later than Friday, the 6th September, 1946.

A. V. WILLIAMS,
Town Clerk.

Council House, Dudley.
13th August, 1946. 802

WEST BRIDGFORD URBAN DISTRICT
COUNCIL.

ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Engineer and Surveyor's Department.

The salaries will be in accordance with the Scheme of Conditions of Service (Administrative, Professional and Technical Division) of the National Joint Council for Local Authorities, plus cost-of-living bonus, at present £59 16s. per annum.

- (a) SENIOR ARCHITECTURAL ASSISTANT, Grade III, £390-£415-£435. Applicants must be qualified architects, and have had good experience in housing development, preferably with a local authority.
- (b) ENGINEERING AND PLANNING ASSISTANT, Grade II, £360-£415-£405. Applicants must have had general engineering experience, and be able to undertake the preparation and administration of a Planning Scheme.

Preference will be given to applicants who have passed recognized professional examinations. Forms of application, particulars of appointment and duties, may be obtained from the undersigned, and applications should be returned not later than Monday, 26th August, 1946.

A. G. MANSFIELD,
Clerk of the Council.

The Hall, West Bridgford, Nottingham. 781

COUNTY BOROUGH OF WOLVERHAMPTON.

APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.

Applications are invited for the following permanent appointments in the Architectural section of the Borough Engineer and Surveyor's Department:—

- SENIOR ARCHITECTURAL ASSISTANT (CLASS 1).

Salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Scales (£460-£510), plus cost-of-living bonus, at present £59 16s. per annum.

- SENIOR ARCHITECTURAL ASSISTANT (CLASS 2).

Salary in accordance with the Grade IV of the above scales (£420-£465), plus cost-of-living bonus. Applicants must be qualified architects, and have had sound experience in general architectural work, including housing and public buildings, and in the preparation of working drawings and specifications.

The appointments, terminable by one month's notice on either side, are subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services. Canvassing will be a disqualification.

Applications, stating age, qualifications, and full details of experience, together with copies of not more than three recent testimonials, should be delivered to the undersigned not later than Wednesday, the 4th September, 1946, in sealed envelopes endorsed "Senior Architectural Assistant, Class 1," or "Senior Architectural Assistant, Class 2."

J. BROCK ALLEN,
Town Clerk.

Town Hall, Wolverhampton.
9th August, 1946. 780

BOROUGH OF BUXTON.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following positions:—

- (a) CHIEF ENGINEERING ASSISTANT.
- (b) ARCHITECTURAL ASSISTANT.
- (c) CHIEF CLERK.

The salaries for appointments (a) and (b) will be in accordance with Grade II of the National Joint Council, namely, £360 p.a., rising by three annual increments of £15 to £405 p.a.

Appointment (c) will be graded in accordance with the Clerical Division, namely, £315 p.a., rising by three annual increments of £15 to £360 p.a. Cost-of-living bonus, at present £59 16s., will be paid in respect of the three appointments.

All the appointments are subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful applicants will be required to pass a medical examination.

Preference will be given to candidates possessing the recognized professional qualifications, and applications from Service men who are to be released in the near future will be considered.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should reach the undersigned not later than Wednesday, the 28th August, 1946.

A. C. W. RYLAND,
Borough Surveyor.

Town Hall, Buxton.
3rd August, 1946. 713

COUNTY BOROUGH OF WEST HARTLEPOOL.
BUILDING INSPECTOR.

Applications are invited for the position of Building Inspector, in the Borough Engineer's Department, at a salary at the rate of £375×£15 to £420 per annum, plus cost-of-living bonus (at present £59 16s.). The commencing salary will be fixed according to the selected candidate's qualifications and experience.

Applicants, who must not exceed the age of 45 years, must have a sound practical knowledge of Building Construction and Sanitation, including steel framed and concrete buildings, and must be fully conversant with the administration of Building Bye-laws. Applications, endorsed "Building Inspector," giving full particulars of experience and qualifications, and accompanied by copies of not more than three recent testimonials, are to be delivered to Mr. Francis Durkin, Borough Engineer, West Hartlepool, not later than noon on Monday, 2nd September, 1946.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the selected applicant will be required to pass a medical examination by, and to the satisfaction of, the medical officer.

The appointment will be subject to termination by one month's notice in writing on either side. Canvassing, directly or indirectly, will be a disqualification.

ERIC J. WAGGOTT,
Town Clerk.

Town Clerk's Department.
1st August, 1946. 709

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

SECOND ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary in accordance with Grade IV of A.P. & T. Division—National Scales of £420-£465—plus cost-of-living bonus, at present £59 16s. per annum.

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

Applicants must be Associates of the Royal Institute of British Architects, and must have experience in Housing and other general work of a Local Authority; a knowledge of quantities is desirable.

Form of application to be obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, to whom applications, accompanied by copies of not more than three recent testimonials, are to be delivered not later than Tuesday, 3rd September, 1946.

Canvassing, directly or indirectly, will disqualify.

A. C. SHEPHERD,
Town Clerk.

Carr Bank, Mansfield.
3rd August, 1946. 742

BOROUGH OF FINCHLEY.

BOROUGH HOUSING AND TOWN PLANNING
DEPARTMENT.

Applications are invited for the appointments of (a) ARCHITECTURAL DRAUGHTSMAN, and (b) TOWN PLANNING DRAUGHTSMAN.

The salary attached to each appointment will be £255, rising by three annual increments of £15 to £300 per annum, plus £20 per annum London weighting and cost-of-living bonus, at present £59 16s. per annum (the Miscellaneous Division, Grade I, National Scheme of Conditions of Service).

Applicants for (a) should have had experience in Architectural work undertaken by a local authority, including the preparation of working and detail drawings.

Applicants for (b) should be competent draughtsmen and have a general knowledge and experience of town planning work, preferably in the service of a local authority.

The successful candidate will be required to pass a medical examination by the Council's Medical Officer of Health, and to contribute to the Corporation's Scheme under the provisions of the Local Government Superannuation Act, 1937.

It will be necessary for the person appointed to make his own arrangements for housing accommodation.

Applications, stating age, qualifications and previous experience, accompanied by copies of three recent testimonials, must be delivered to Mr. C. R. Edwards, A.M.T.P.I., M.R.San.I., Borough Housing and Town Planning Officer, 296, Regents Park Road, Finchley, N.3, not later than Saturday, 7th September, 1946.

Canvassing, directly or indirectly, will disqualify.

R. M. FRANKLIN,
Town Clerk.

Town Clerk's Department.
1st August, 1946. 713

BOROUGH OF BRENTFORD AND CHISWICK.

Applications are invited for the permanent appointment in the Borough Engineer and Surveyor's Department for the under-mentioned posts:—

(a) **ONE SENIOR BUILDING INSPECTOR AND TOWN PLANNING OFFICER.** Salary in accordance with Grade VI National Joint Council Scale (£555-£620, plus cost-of-living bonus, at present £59 16s. per annum). Preference will be given to applicants who have passed the final examination of the Royal Institute of Chartered Surveyors (Building Section), or hold an equivalent qualification, and should have had considerable experience of building bye-law administration under the Public Health Act, 1936. In addition should be corporate members of the Town Planning Institute or hold equivalent qualification, with experience in the preparation of Town and Country Planning Schemes.

(c) **THREE ARCHITECTURAL ASSISTANTS.** Salary in accordance with Grade V of the National Joint Council Scale (£480-£530, plus cost-of-living bonus, at present £59 16s. per annum). Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects, but consideration will also be given to applications of persons intending shortly to take Associate examination. Applicants should have experience in general architectural work, school and house planning and design, including the preparation of working drawings, specifications and setting out.

(d) **ONE TOWN PLANNING ASSISTANT.** Salary in accordance with Grade III of the National Joint Council Scale (£410-£455, plus cost-of-living bonus, at present £59 16s. per annum). Preference will be given to candidates who are members of the Town Planning Institute, or who hold equivalent qualifications and who have had some experience in the preparation and operation of Town Planning schemes.

(d) **ONE JUNIOR ASSISTANT BUILDING INSPECTOR AND TOWN PLANNING ASSISTANT.** Salary in accordance with M.D. Grade I of the National Joint Council Scale (£285-£330, plus cost-of-living bonus, at present £59 16s. per annum). Applicants should have had experience of building bye-law administration, including some experience in a building inspector's office, together with a general knowledge of Town Planning.

The appointments are subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side, the successful candidates being required to pass a medical examination and to enter into a Fidelity Bond with the Council's Insurers at the expense of the Council. Applications, endorsed (a) (b), (c), or (d), as the case may be, and stating age, qualifications, experience, present appointment and salary, accompanied by copies of three recent testimonials, should reach the undersigned not later than 12 noon on 10th September, 1946. Canvassing, directly or indirectly, will disqualify.

JOHN SKINNER,

Town Clerk. Town Hall, Chiswick, W.4. 12th August, 1946. 788

STAFFORDSHIRE EDUCATION COMMITTEE.

APPOINTMENT OF HORTICULTURAL DRAUGHTSMAN.

Applications are invited for the post of Horticultural Draughtsman, to work under the direction of the Superintendent of Playing Fields and Grounds, in connection with the preparation of schemes for the construction of School Playing Fields and layout of School Grounds.

Applicants must have a knowledge of surveying, and be able to prepare schemes of levelling, particularly on a quantitative basis.

The salary will be in accordance with the National Joint Council Scale, Administrative, Professional and Technical Division, Grade I. The post will come within the provisions of the Local Government Officers' Superannuation Act, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be lodged with the undersigned, not later than 31st August, 1946, envelope being endorsed "Maintenance of Playing Fields and Grounds."

F. A. HUGHES,

Director of Education. County Education Offices, Stafford. 12th August, 1946. 791

KENT EDUCATION COMMITTEE.

BECKENHAM TECHNICAL INSTITUTE.

Required for September, 1946, for work mainly in the Secondary Technical School, MASTER FOR BUILDING SUBJECTS (Construction, Science).

Degree or equivalent essential. Candidates must have had industrial experience.

Post is full-time and permanent. Salary on London Burnham Scale.

Forms of application from the Principal, Technical Institute, Beckenham, Kent. 790

CORPORATION OF DUBLIN.

Vacancies for:—

(a) **TEMPORARY TOWN PLANNING ASSISTANTS,** Town Planning Department.
(b) **TEMPORARY ASSISTANT ARCHITECTS,** City Architect's Department.

It is proposed to make appointments to the above-mentioned vacancies. Applications are invited from persons desirous of being appointed.

Salary:—
For posts (a), £8 per week for the first two years, £9 per week for the subsequent two years, and £10 per week thereafter. A commencing salary higher than the minimum mentioned may be paid if the qualifications and experience of a candidate warrant it.

For posts (b): £8 8s. per week.
At present a temporary emergency bonus, subject to review from time to time, is payable in addition to both salaries. The present rate of emergency bonus is 15s. per week for married men, widowers and widows, and 12s. per week for unmarried men and unmarried women.

Further particulars as to qualifications, duties, etc., may be obtained from the Finance and General Purposes Section, City Hall, Dublin, where applications must be lodged not later than 12 noon on the 2nd September, 1946.

P. J. HERNON,

City Manager and Town Clerk. City Hall, Dublin. 31st July, 1946. 774

HARROGATE AND DISTRICT REGIONAL PLANNING COMMITTEE.

CHIEF PLANNING ASSISTANT.

Applications are invited for the appointment of Chief Planning Assistant, at a salary in accordance with the National Scale of Salaries, A.P.T., Grade V, commencing at £460, and rising by two annual increments of £15 and one of £20 to £510 per annum, plus cost-of-living bonus.

Applicants should be Corporate Members of the Town Planning Institute, and have had experience in the preparation of Statutory Planning Schemes and the control of interim development. Preference will be given to applicants who possess also a qualification in engineering or architecture. The appointment will be terminable by one month's notice on either side, and the successful candidate will be required to pass a medical examination. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, and previous experience, endorsed "Chief Planning Assistant," and accompanied by copies of not more than three recent testimonials, should be submitted to the undersigned not later than Thursday, the 12th September, 1946.

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

J. M. DODDS,

Honorary Clerk of the Committee. Town Clerk's Department, Municipal Offices, Harrogate. 30th July, 1946. 701

QUANTITY SURVEYORS are required by several Government Departments, in various grades, at salaries varying from £300-£800 per annum + consolidation allowance. Vacancies exist throughout the United Kingdom and Overseas.

Applicants should write, quoting E.A./Q.S., to the Ministry of Labour and National Service, Technical and Scientific Register, Room 257, York House, Kingsway, London, W.C.2. 782

Tenders

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

WANDSWORTH BOROUGH COUNCIL. ERECTION OF FLATS—IRON MILL PLACE, WANDSWORTH.

Tenders are invited for the erection of two Blocks of Flats, on the Iron Mill Place site, Wandsworth, S.W.18. The approximate size of each block is 320 ft. by 30 ft., and five and seven storeys in height. Each block will contain 58 Flats. The foundations have been made the subject of a separate contract, and will be completed ready to take the superstructure, for which tenders are now being invited.

Applications for Forms of Tender and Bills of Quantities must be made to the Architect, Mr. C. Lovett Gill, F.R.I.B.A., 41, Russell Square, London, W.C.1, not later than 6th September, 1946, accompanied by a deposit of three guineas (which will be refunded upon submission of a bona fide tender and return of all documents). Drawings and Conditions of Contract may be inspected at the offices of the Architect during the month of September.

Tenders, enclosed in sealed envelopes endorsed "Tender—Erection of Flats—Iron Mill Place," must be delivered to the Town Clerk, Municipal Buildings, Wandsworth, S.W.18, not later than 12 noon on Monday, 7th October, 1946.

The Council do not bind themselves to accept the lowest or any tender.

By Order,

R. M. JERMAN,

Town Clerk. Municipal Buildings, Wandsworth, S.W.18. 12th August, 1946. 787

WANDSWORTH BOROUGH COUNCIL. ERECTION OF DWELLINGS—NOTRE DAME ESTATE, CLAPHAM.

Tenders are invited for the erection of 92 Dwellings, in blocks of four and five storeys, at the Notre Dame Estate, Clapham, to the design of the Architect, Mr. C. H. James, R.A., F.R.I.B.A., 5, Bloomsbury Street, London, W.C.1.

Applications for Forms of Tender and Bills of Quantities must be made to the undersigned not later than 4th September, 1946, accompanied by a deposit of three guineas (which will be refunded upon submission of a bona fide tender and return of all documents). Drawings and Conditions of Contract may be inspected at the offices of the Architect during the month of September.

Tenders, enclosed in sealed envelopes endorsed "Tender—Erection of Dwellings—Notre Dame," must be delivered to the Town Clerk, Municipal Buildings, Wandsworth, S.W.18, not later than 12 noon on Monday, 7th October, 1946.

The Council do not bind themselves to accept the lowest or any tender.

By Order,

R. H. JERMAN,

Town Clerk. Municipal Buildings, Wandsworth, S.W.18. 13th August, 1946. 801

Sale by Auction

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

RAYNES PARK.

FREEHOLD SITE AT SHANNON CORNER, on the KINGSTON-BY-PASS and BURLINGTON ROAD.

AN IMPORTANT POSITION WITH AN ASSURED FUTURE. AREA ABOUT 1,120 ACRES.

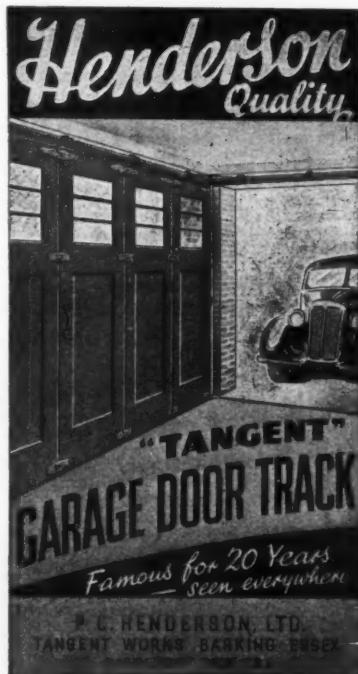
Suitable for the immediate erection of **EIGHTY FLATS,** the ground floor of which may later be converted to **TWENTY SHOPS.**

Total frontage about 440 ft. All services available for connection.

For SALE BY AUCTION, in the Hanover Square Estate Room, on **THURSDAY, 10th OCTOBER,** at 2.30 p.m. (unless previously sold privately).

Solicitors: Messrs. Ranger Burton & Frost, Stafford House, Norfolk Street, W.C.2.

Auctioneers: Messrs. KNIGHT, FRANK & RUTLEY, 20, Hanover Square, London, W.1. MAYfair 3771. 29722/T/R.B. 771



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

QUALIFIED SENIOR ASSISTANT, also competent Intermediate Standard Assistant required urgently; prospect, branch partnership; pleasant district; busy expanding practice; two branch offices; flat available if family. R. & D. Hall, F./A.R.I.B.A., Architects, Bangor, N. Wales. 710

SENIOR ASSISTANT, to take responsibility on industrial work and housing; good permanent position; state salary and qualifications. Forshaw & Greaves, 33, Albion Street, Hanley, Stoke-on-Trent. 712

ARCHITECT'S ASSISTANT, with progressive outlook; Inter R.I.B.A. examination essential. Please write, stating full experience, etc. Edward Narracott, A.R.I.B.A., 31, Torwood Street, Torquay. 741

EXPERIENCED Estimator and Quantity Surveyor required immediately by South London Contractors on Housing and Factory work; young and energetic man preferred. Write, giving full details of experience and salary required, Box 744.

ARCHITECTS or SURVEYORS' ASSISTANTS required in London Office in connection with war damage and other work. Replies, stating age, experience, and salary, to Box 759.

WEST END ARCHITECTS invite Assistants who are now employed in a temporary capacity with Local Authorities or Ministries, to contact them when available, as they have vacancies in a progressive office where initiative would be properly recognized. Box 769.

LONDON ARCHITECTS have immediate vacancies for Assistants (male and female), to assist them in a rapidly expanding practice; experienced ex-Service people particularly encouraged to apply, giving full details of their career and commencing salary expected. Box 770.

TWO additional Architectural Assistants required for busy Cambridge Architect's office; salaries £350-£400, according to ability; knowledge of quantities advantageous. Box 768.

ASSISTANT ARCHITECTS required by leading Midland Engineering Firm; must be keen, energetic, and first-class draughtsman, with a good knowledge of building construction. Write, stating age, experience, and salary required, to Box 767.

SENIOR ARCHITECT'S ASSISTANT required immediately; salary £400-£500. Gotch, Saunders & Surridge, High Street, Kettering. 766

ARCHITECT/SURVEYOR required in Southampton Architect's Office; general experience, including site surveys, will be required; possibility of future partnership to suitable applicant. Replies to William Beech, Chartered Architect and Surveyor, Chamber of Commerce Buildings, Cumberland Place, Southampton. 765

GARDEN DESIGN AND CONSTRUCTION Firm requires able Surveyor and Draughtsman, with appropriate experience; preference given to keen, young, single ex-Service man; commencing salary £2½ per week. Apply, with full details in writing, to John Jefferies & Son, Ltd., 2, Castle Street, Cirencester, Gloucestershire. 764

JUNIOR ASSISTANT required for small progressive Architect's office, near Kingston. Box 784.

SIR JOHN BURNET, TAIT & LORNE require Senior Architectural Assistants. Salary up to £600 offered to suitable applicants. Reply, giving age, experience, qualifications, to 10, Bedford Square, W.C.1. 797

JUNIOR ASSISTANT required by Firm of Architects; able to do tracing, measuring, and general office work; domestic and industrial work. Apply, in writing, to Architects, 35, Tavistock Square, W.C.1. or telephone Euston 2084 for an interview. 799

SENIOR and JUNIOR ASSISTANTS required immediately; salary range up to £500, according to qualifications and experience. Johns & Slater, F./A.R.I.B.A., 8, Lower Brook Street, Ipswich. 813

ARCHITECT'S JUNIOR ASSISTANT and also intermediate Assistant required. Apply, stating age, experience, and salary required, to Henry C. Smart & Partners, Architects, 251-3, Finsbury Pavement House, 120, Moorgate, London, E.C.2. 808

LIVERPOOL Architect requires capable Assistant immediately; intermediate or final R.I.B.A. standard. Reply, giving full details, to W. L. Lowe, A.R.I.B.A., 1/3, Eberle Street, Liverpool. 806

ARCHITECT, qualified, experienced, aged preferably between 35 and 40; Also Architectural Assistants, with intermediate R.I.B.A. qualification preferred. Apply, stating age, experience, and salary required, Victor Bain, F.R.I.B.A., 3, Queen Square, Leeds, 2. 804

Architectural Appointments Wanted
Advertisements from Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

ARCHITECT/ENGINEER requires work in Plymouth area from 1st September; 10 years' experience in general architectural work, welded, and reinforced concrete construction; fully qualified. Box 60.

ASSISTANT requires work; Durham or North A Yorks; experience mainly domestic; moderate salary to start. Box 64.

LONDON ARCHITECT (A.R.I.B.A.) is willing to undertake part-time work; all types of work considered—sketches, working drawings, specifications, perspectives and models. Box 54.

SENIOR ASSISTANT ARCHITECT (30 years) desires position as Staff Architect, Building Manager, etc., or would accept interesting work with Architect; Liverpool or district preferred, but others considered; good building organizer; accustomed sole responsibility for many large contracts; widely experienced in departmental stores, canteens, factories, licensed premises, and W.D. reconstructions; testified "excellent draughtsman," "character above reproach." Box 63.

ARCHITECTURAL STUDENT at a University who has reached Intermediate standard desires office experience, August-December. Write Septon, Reservoir Road, Elburton, Plymouth. 62

SENIOR ASSISTANT, age 31, seeks situation on the South Coast, preferably Brighton or Worthing, with Architects or Contractors; 15 years' experience, covering estate development, shops, flats, factories, etc.; first-class draughtsman; capable of organizing and running small office, supervision of site work, setting out, levelling, thorough knowledge of licensing procedure, specification, etc.; salary by arrangement. Write Box 61.

Other Appointments Wanted

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

PERSPECTIVES executed quickly in any medium by specialist and Academy exhibitor; charges moderate. Apply Box 691.

ARCHITECTURAL ASSISTANT requires spare-time drawing and tracing work; all work speedily and carefully carried out. Box 805.

YOUNG Lady requires typing work, to do at home; W.D. schedules, etc.; experienced typist—Imperial elite type machine—or available full time during staff holidays (short-hand moderate). Box 786.

ARCHITECTURAL DRAUGHTSMAN requires evening work at own address. Write Box 807.

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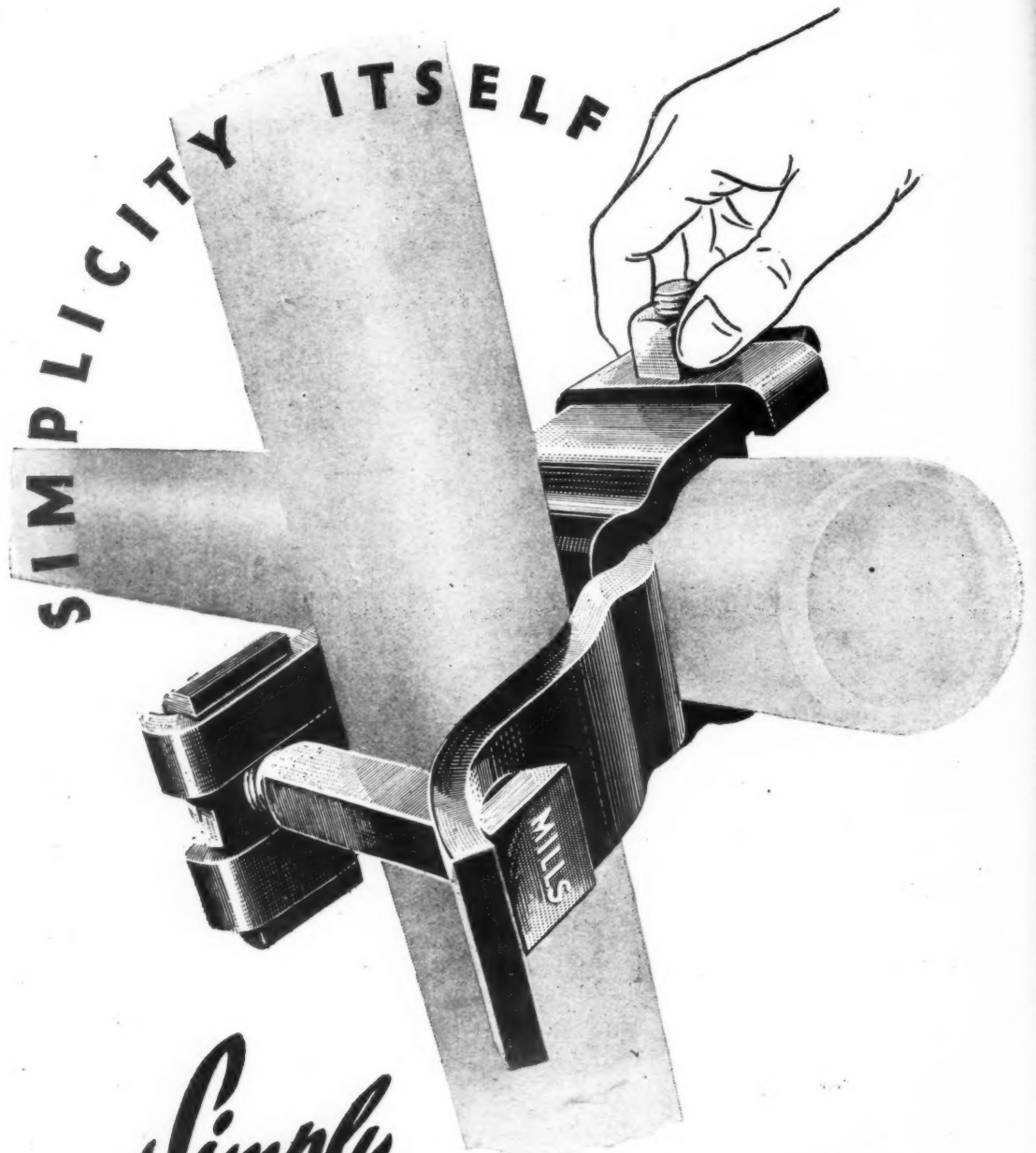
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