

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

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CURRENT BUILDINGS

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Structure Heating & Ventilation
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Acoustics & Sound Insulation

INFORMATION SHEET

SOCIETIES & INSTITUTIONS

PRICES

Architectural Appointments
Wanted and Vacant

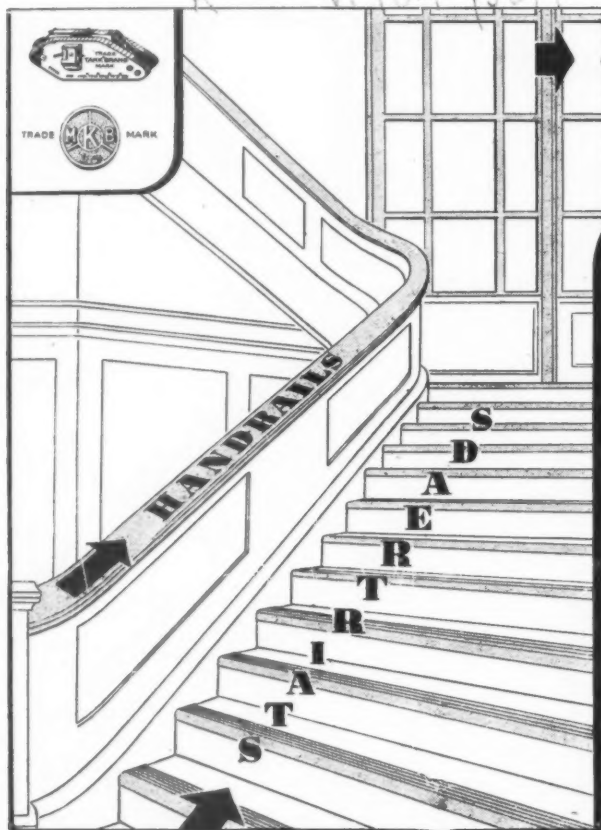
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers, is given below. In all cases where the town is not mentioned the word LONDON is implicit in the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

AA	Architectural Association. 34/6, Bedford Square, W.C.1.	Museum 0974
ABT	Association of Building Technicians. 5, Ashley Place, 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. 23, Maddox 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.	Abbey 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.	Abbey 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 5432
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.	Abbey 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	Modern Architectural Research. 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.	Abbey 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 Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 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
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
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
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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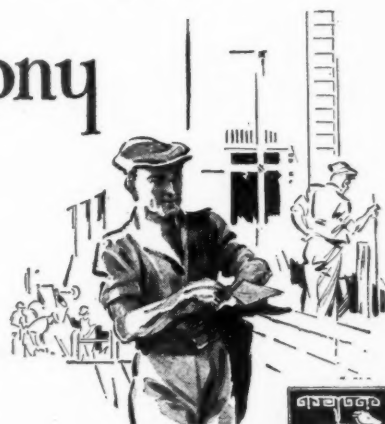
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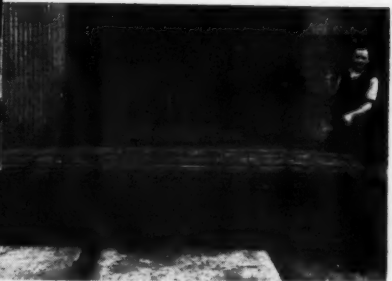
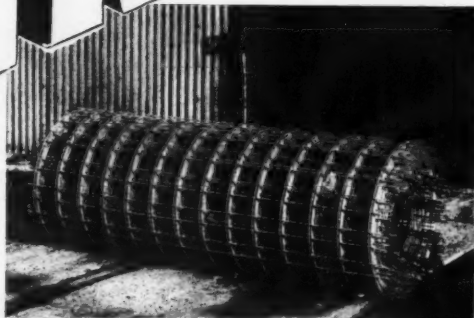
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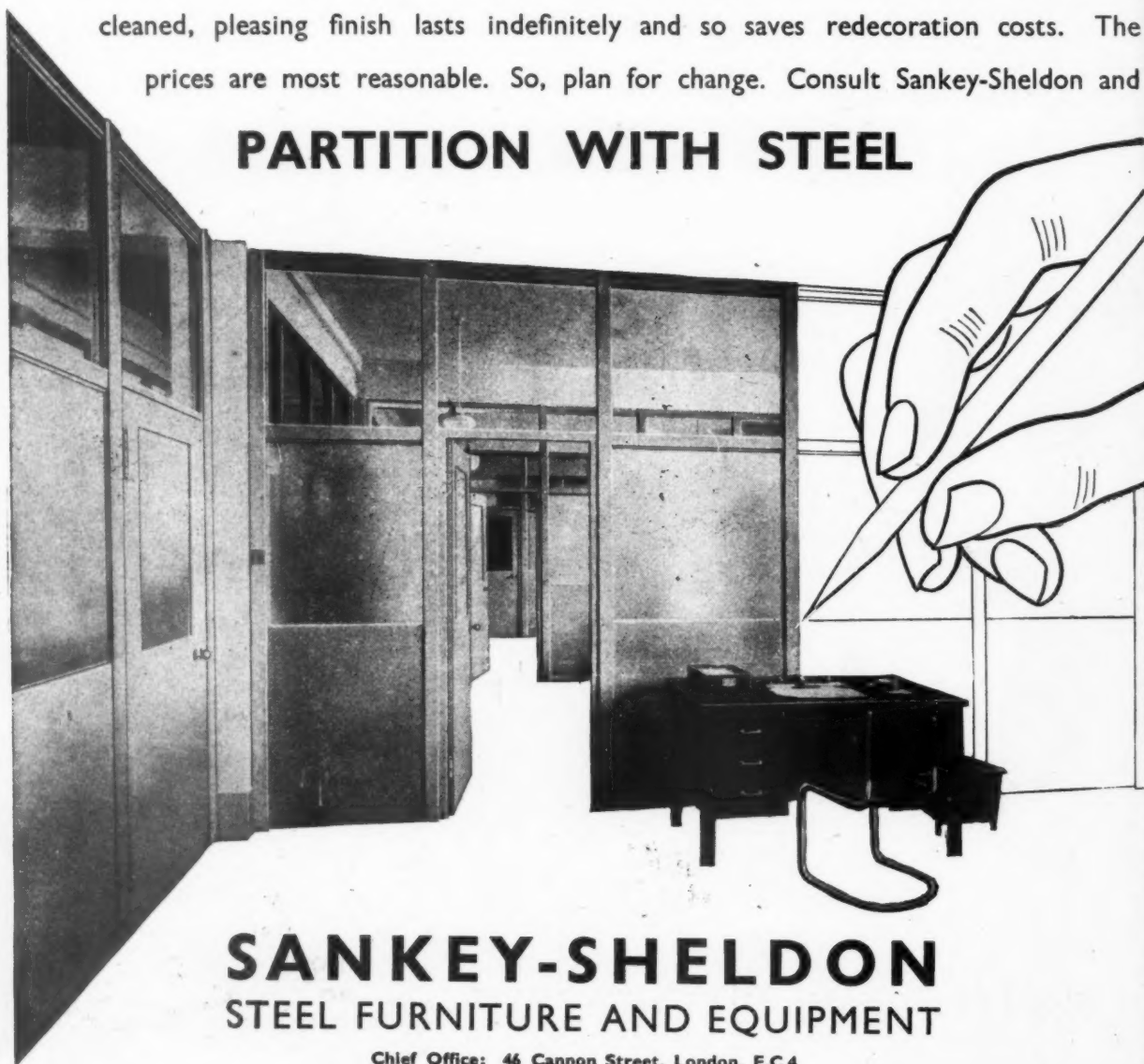
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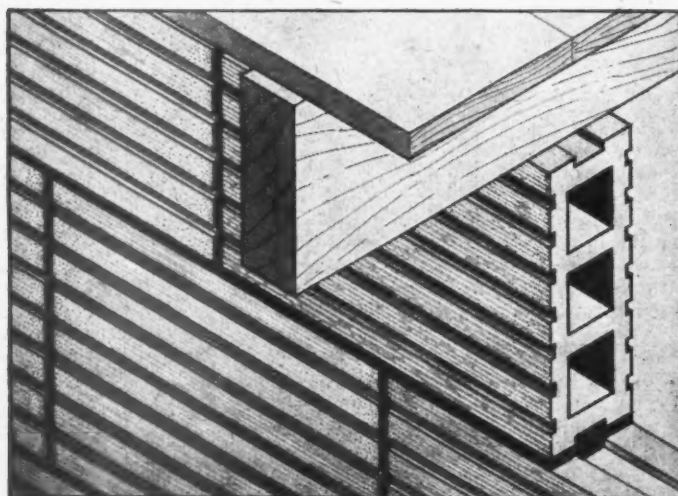
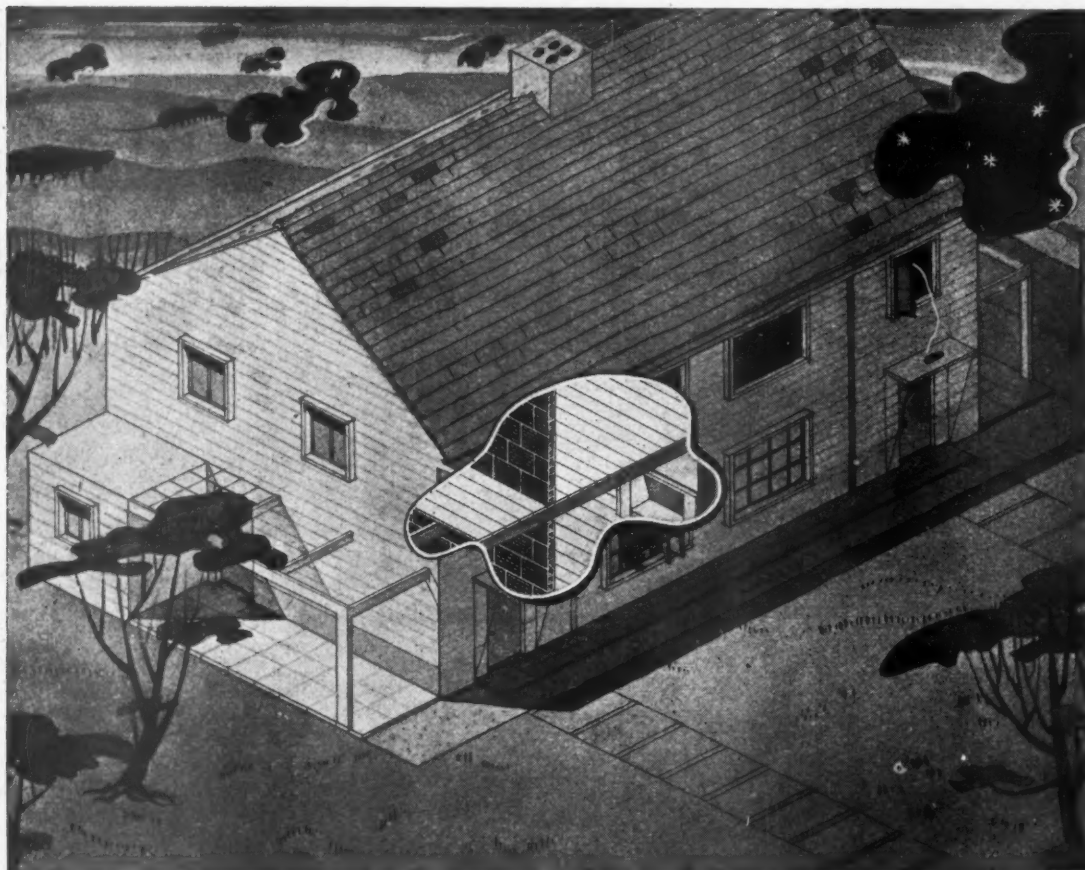
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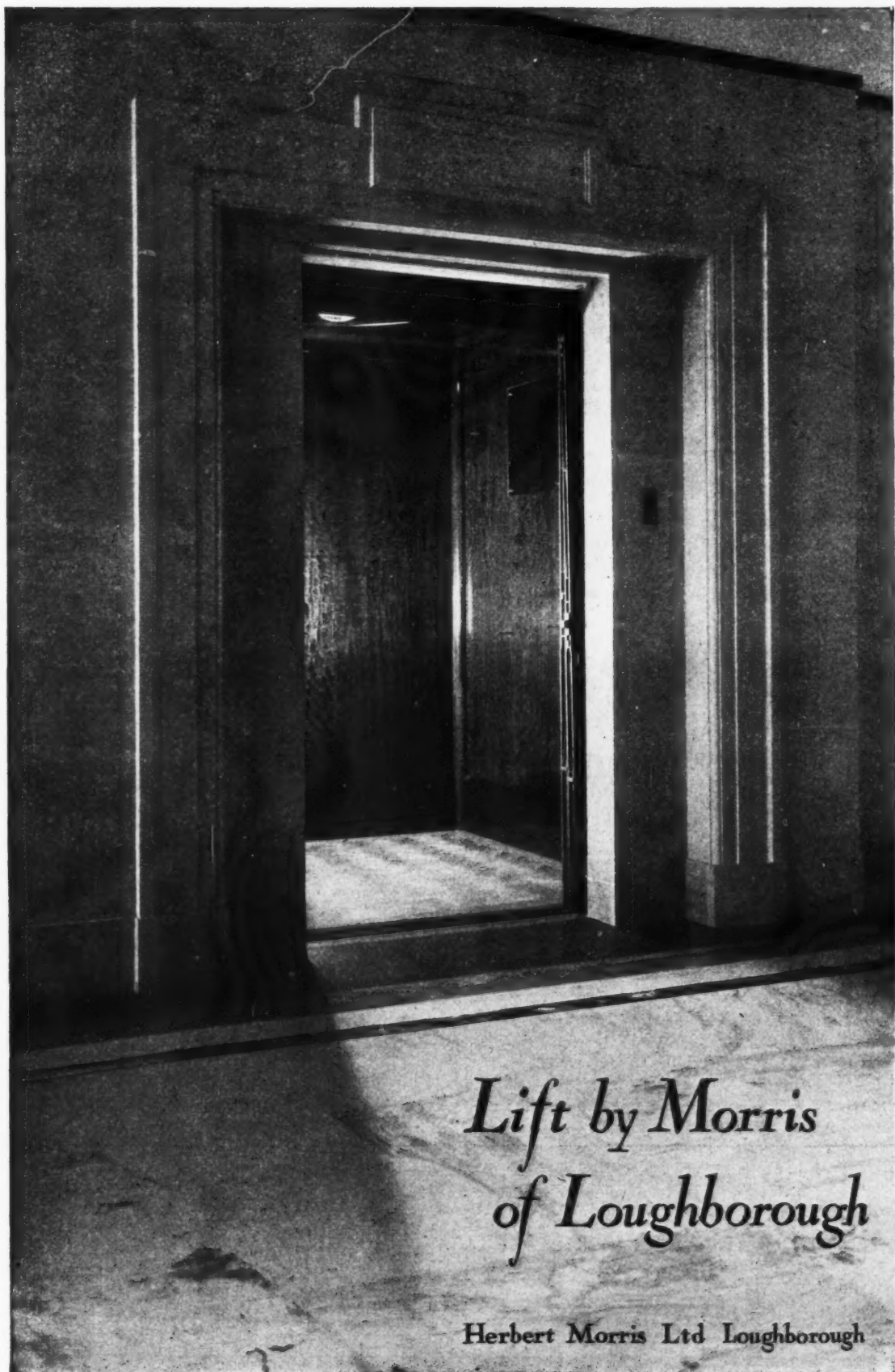
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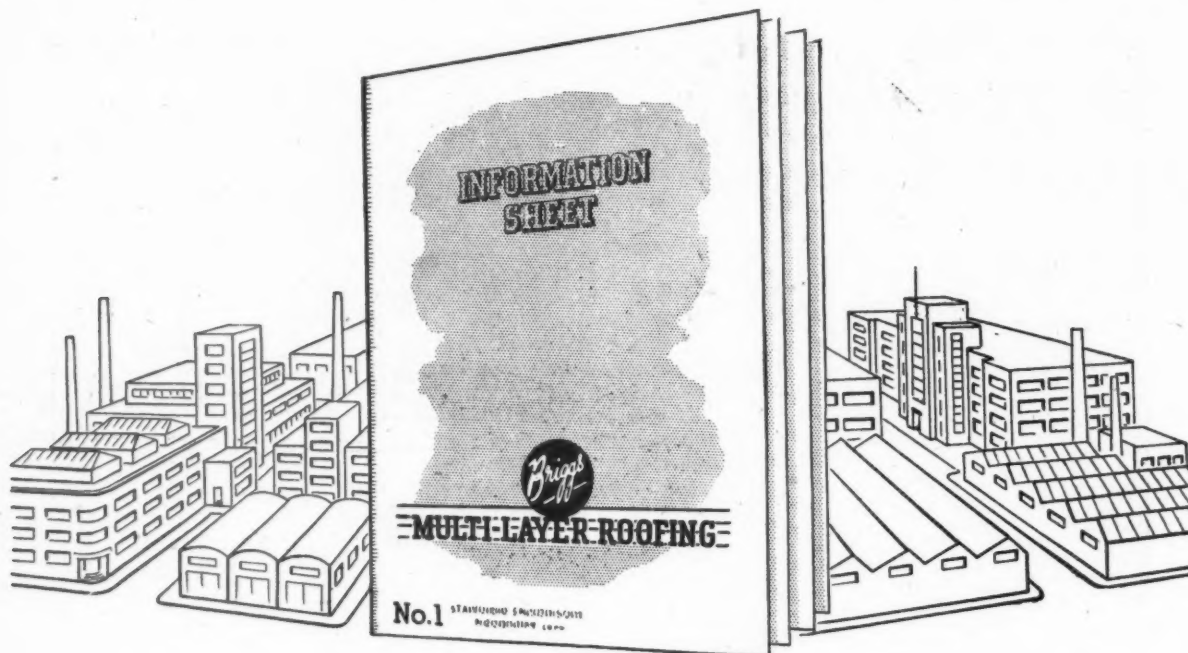
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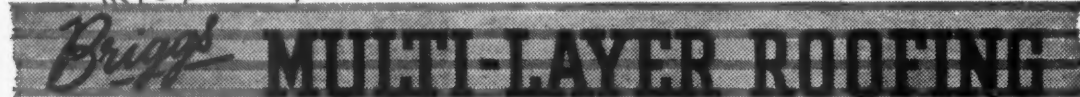
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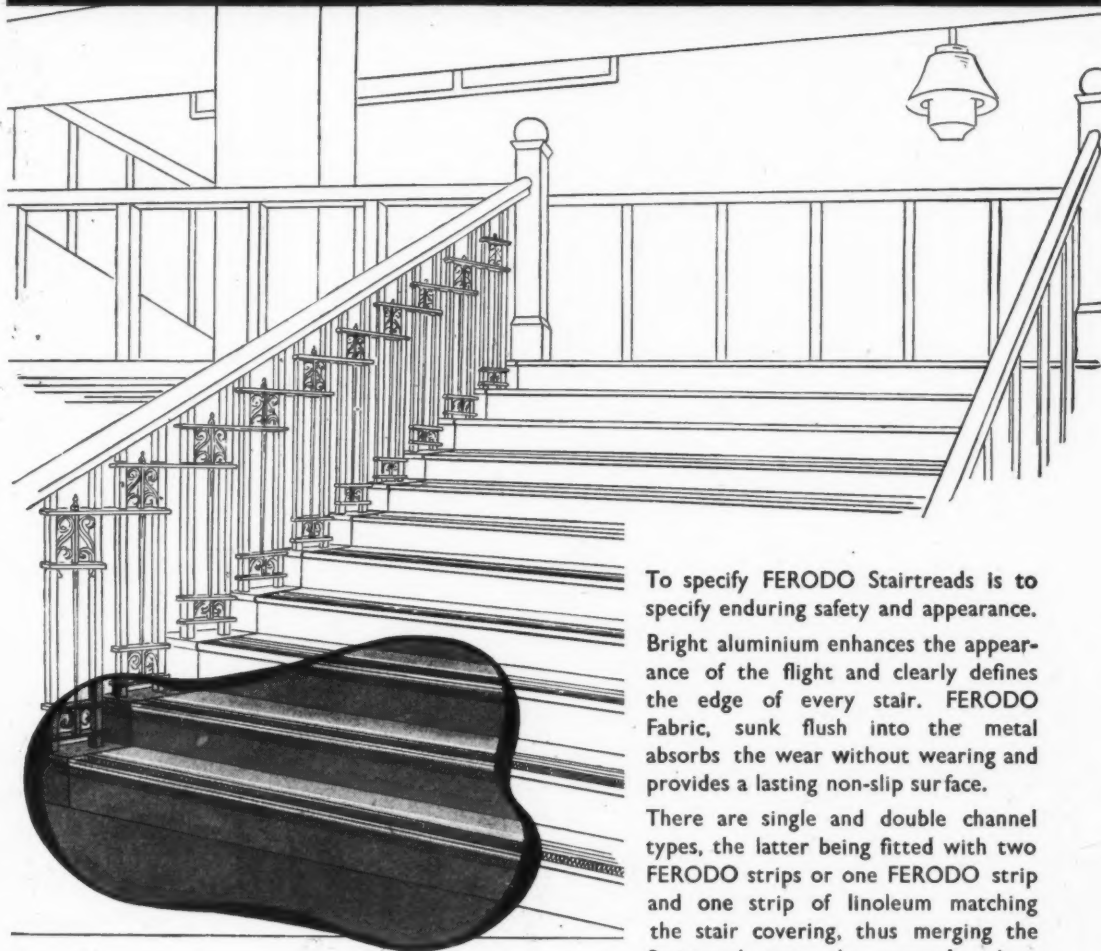
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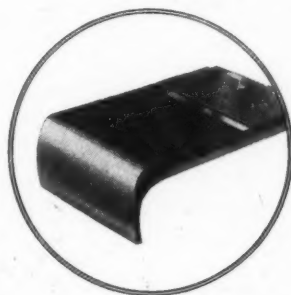
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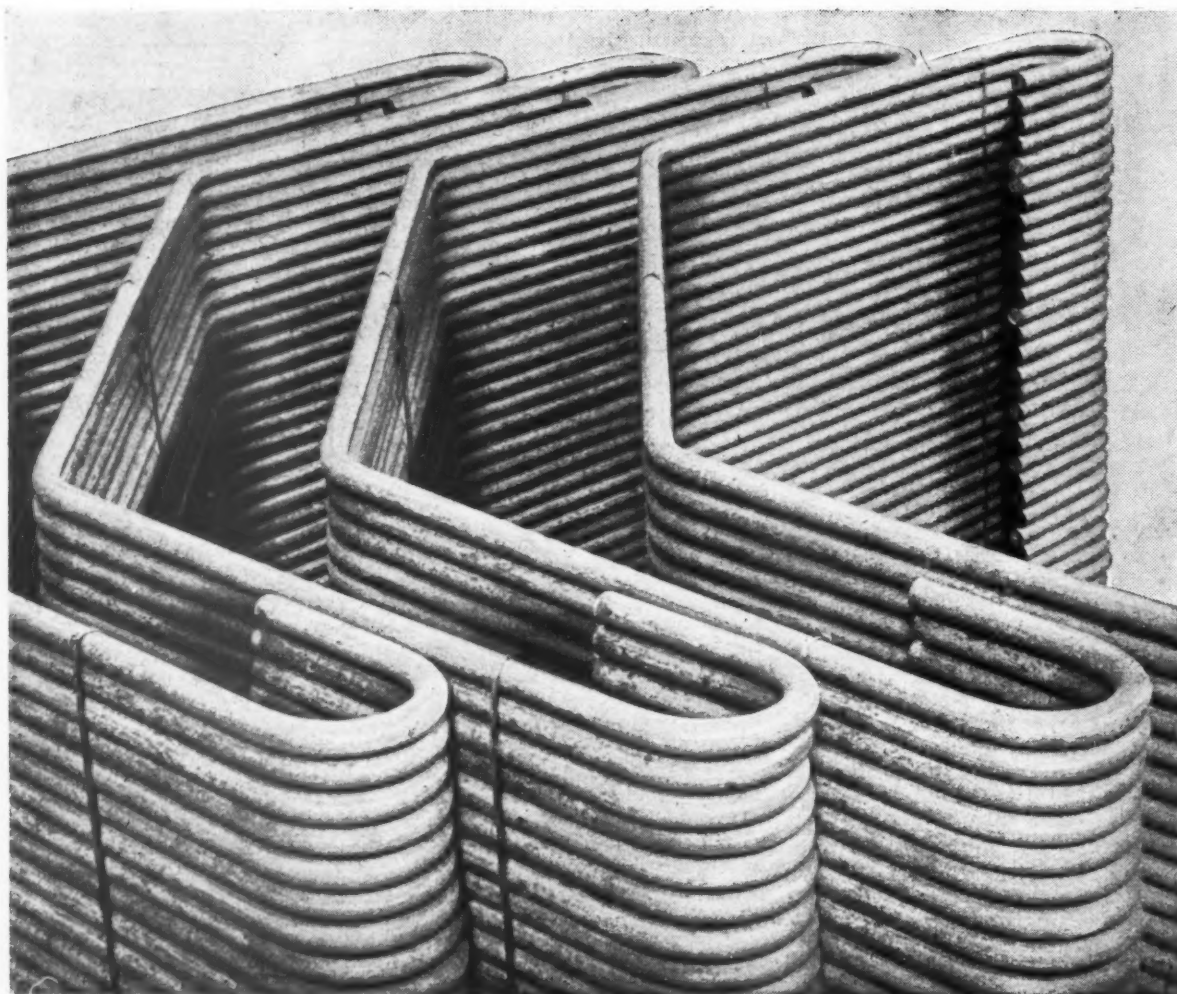


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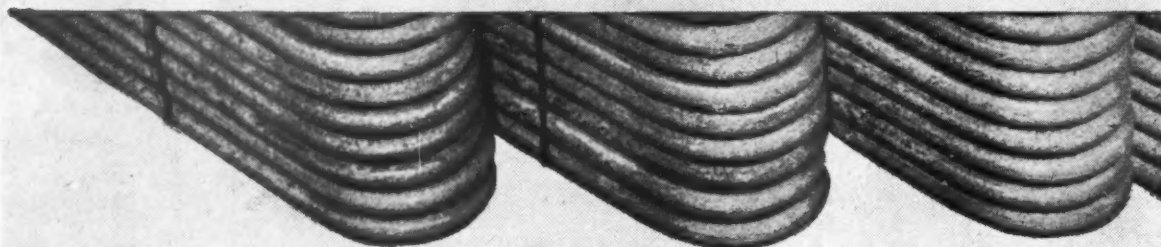
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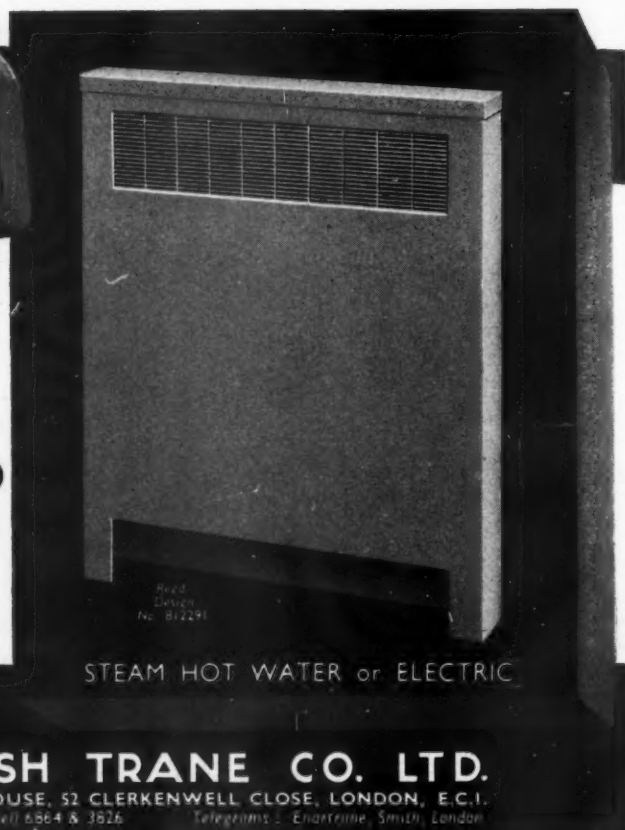
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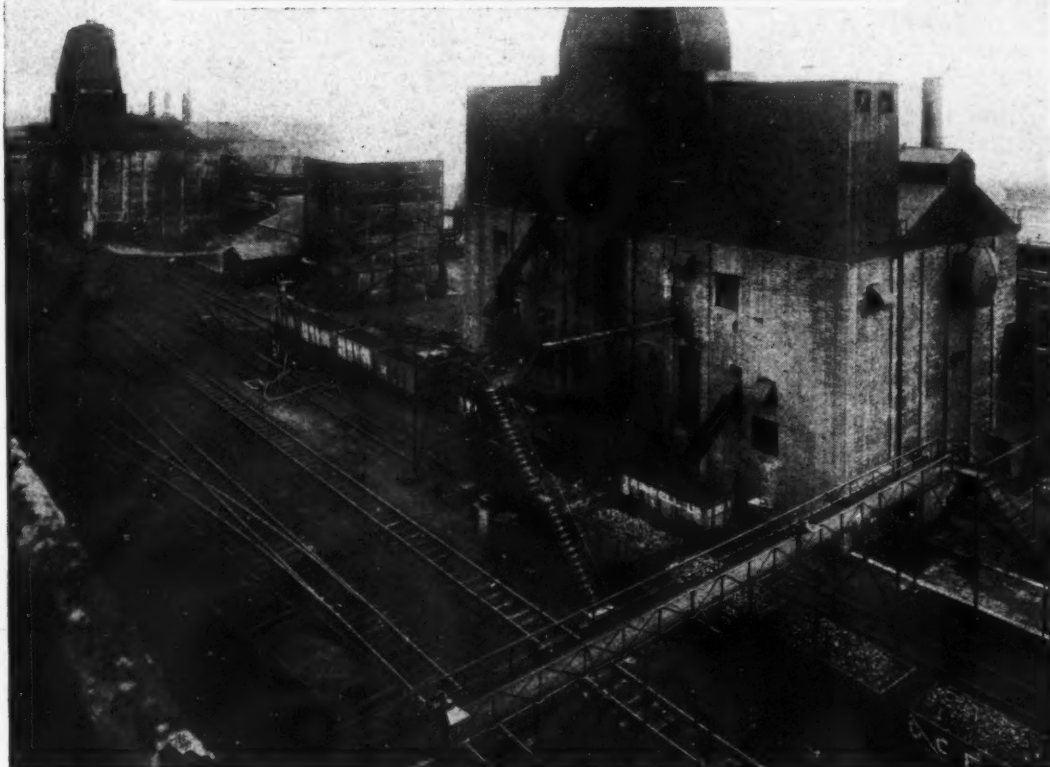
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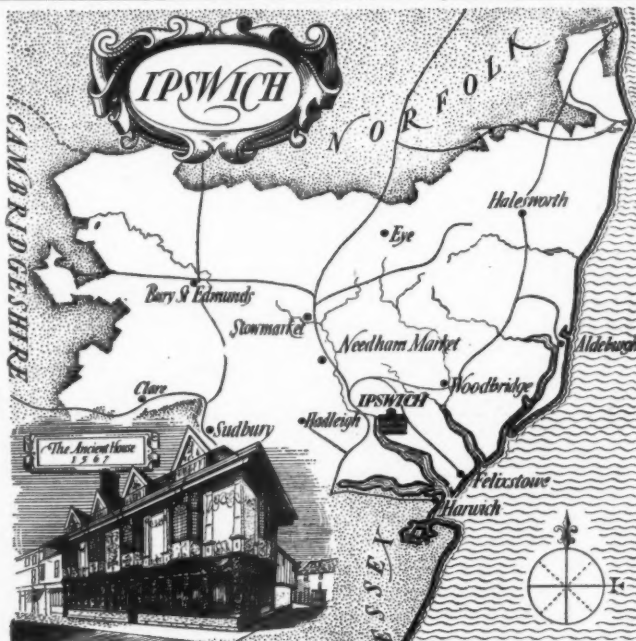
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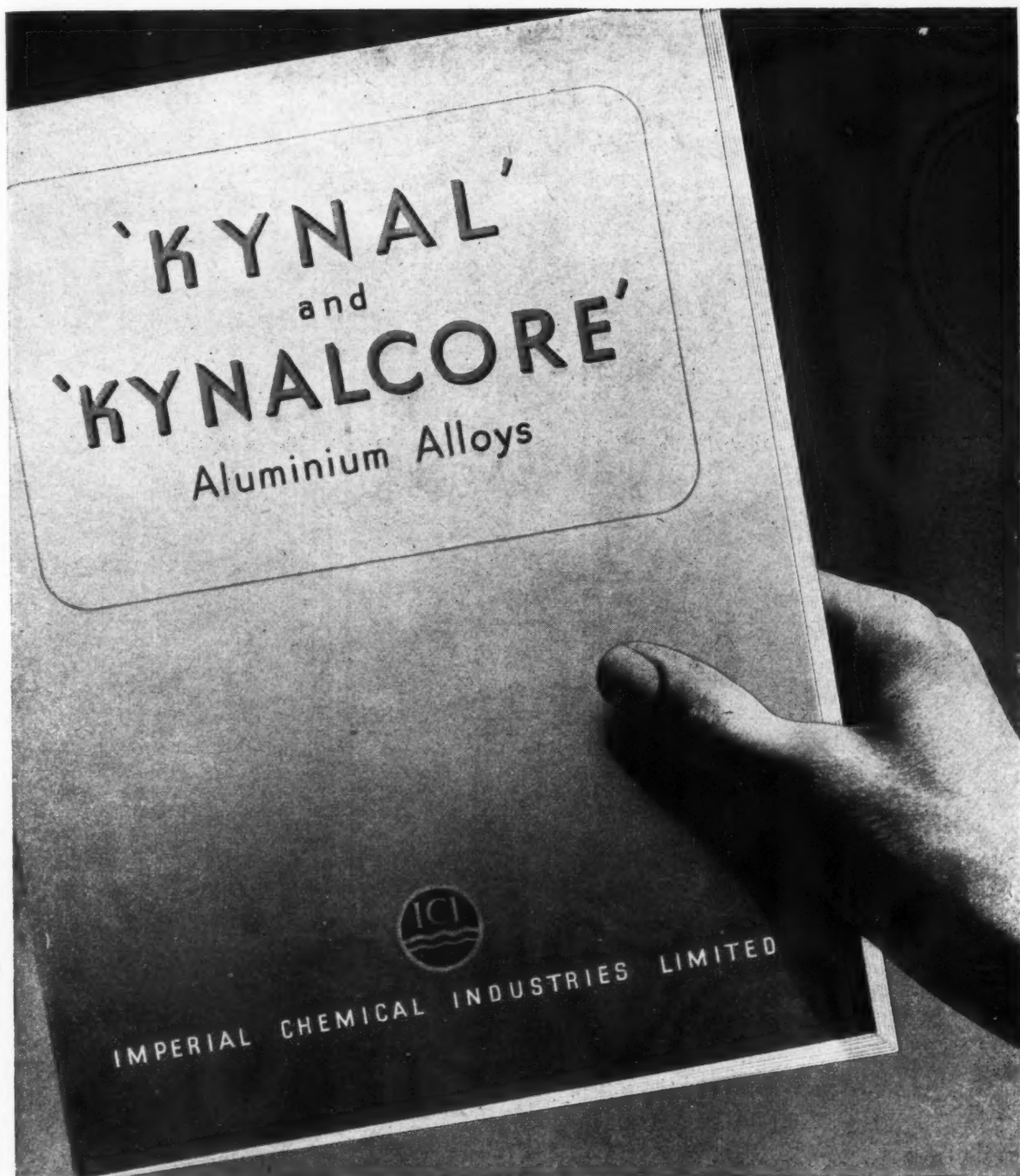
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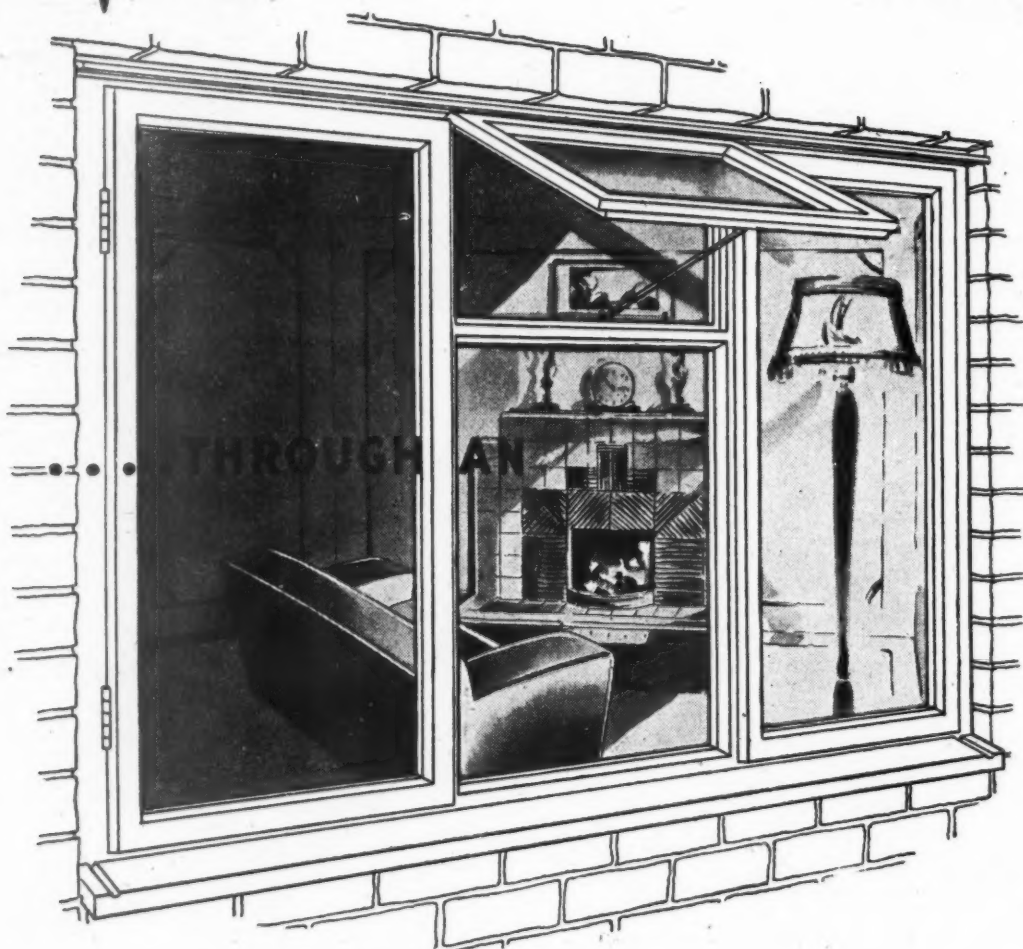
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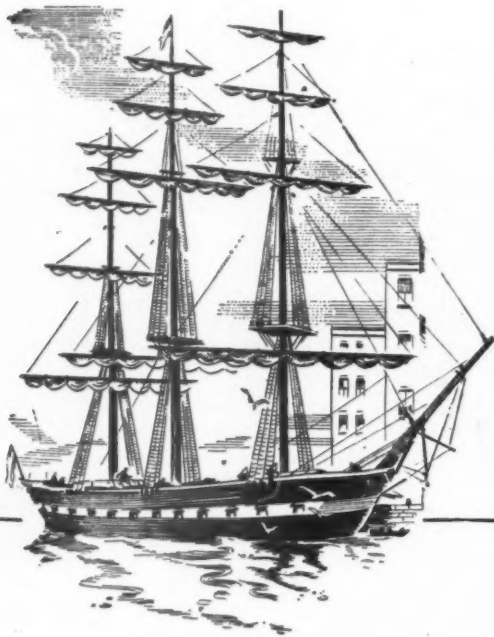
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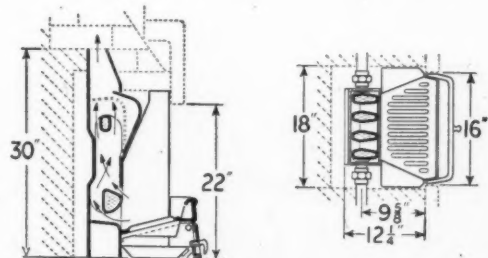
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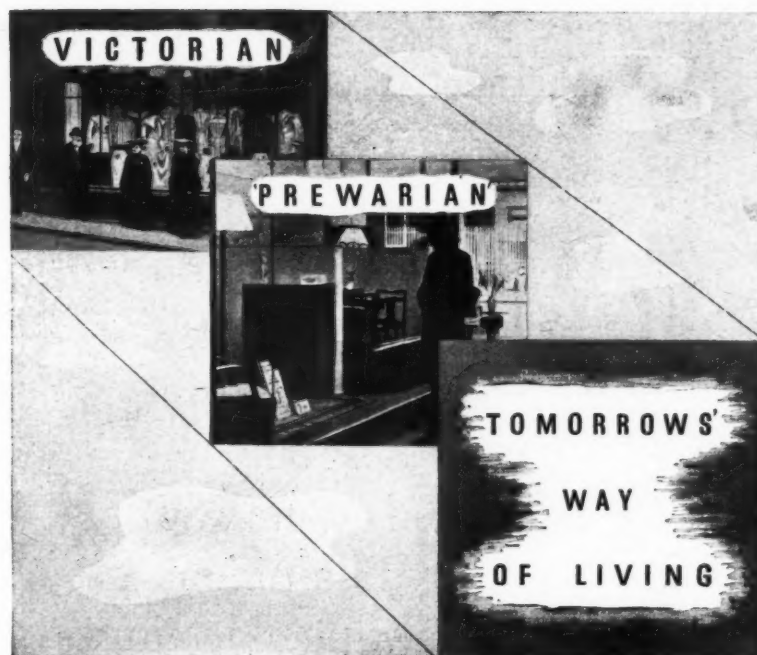
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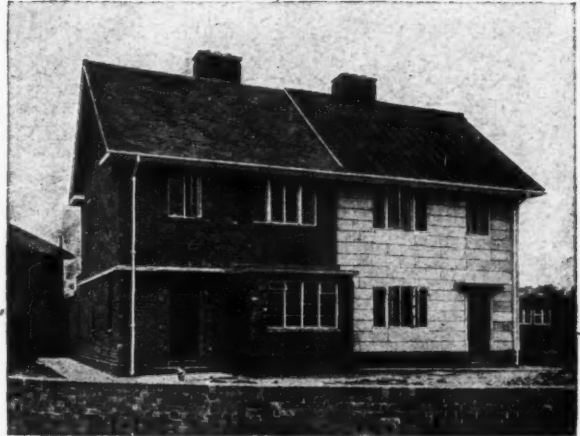
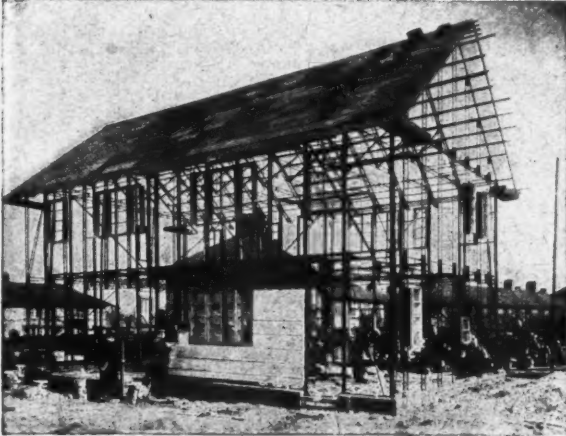


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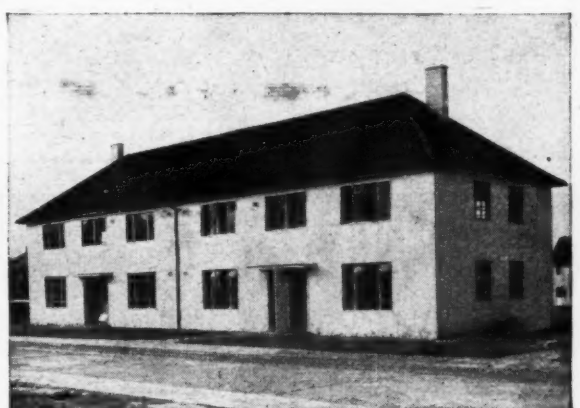
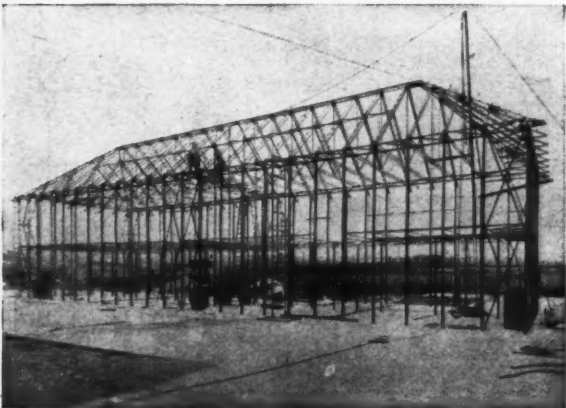
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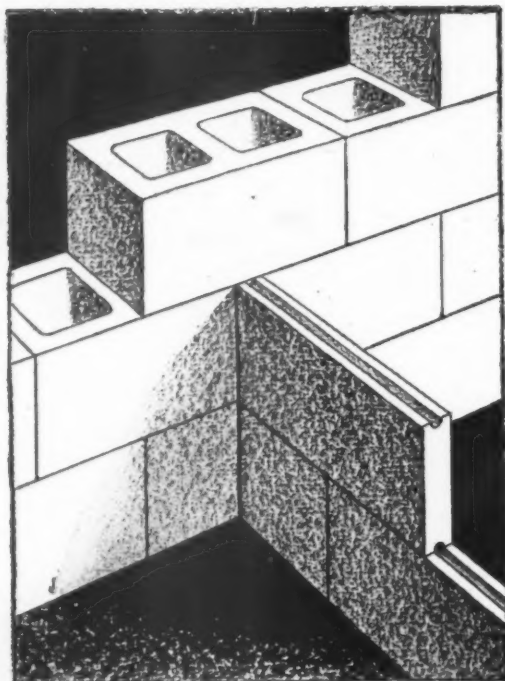
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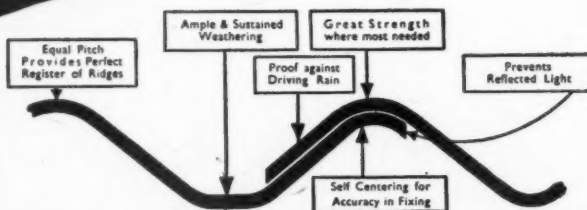
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The illustration depicts a dense urban environment with several multi-story buildings of varying architectural styles, including some with classical domes and others with more modern, angular forms. A tall, slender chimney rises from the right side of the scene. In the center, a large, dark-framed fireproof door is shown in a three-quarter perspective, appearing to float or be set into the cityscape. The door has a small, shield-shaped emblem on its upper panel. The overall style is a detailed line drawing with cross-hatching for shading.

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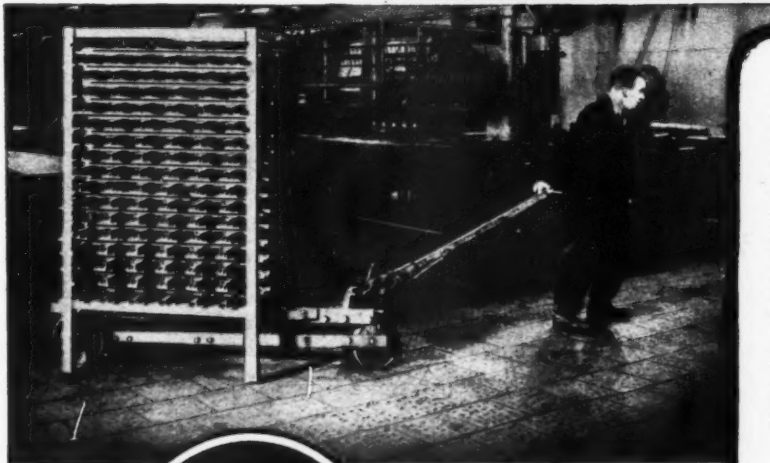
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In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee 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.



DIARY FOR JULY AUGUST AND SEPTEMBER

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.

DONCASTER. *Colour and Pattern in India.* Exhibition at the Art Gallery and Museum. (Sponsor, The Arts Council.)
JUNE 4-JULY 21

EXETER. *Summer Course on USSR* At Hope Hall, Exeter University. To be opened by Mme. Goussev. Mme. Gamazina, Principal of the Soviet School in London, and other Soviet visitors will attend. Cost £5-10-0 for week. (Sponsor, SCR.)
AUG. 17-24.

HALIFAX. *The Engineer in British Life.* Exhibition at Bankfield Museum. (Sponsor, The Arts Council.)
JULY 4-20

HOLLAND. *Town Planning Exhibition.* The *Rebuilding Britain* exhibition arranged by the British Council and the RIBA, which has been a notable success in Stockholm, is going next to Holland and will open on July 6 at the Bogmans Museum, Rotterdam. The exhibition shows how British planners are dealing with such factors as industrial changes, war damage and slums. There are development plans, with illustrations, of Ashford, Coventry, Durham, Exeter, Manchester, Norwich and Plymouth, historical examples of town-planning, including Regency London and Bath, and maps and other planning data. Sections deal with housing and the Ordnance and Geological Surveys. (Sponsor, British Council and the RIBA.)
JULY 6

LONDON. *Drawings and Plans Prepared by the Association for Planning and the Students of the School of Planning.* Exhibition at 35, Gordon Square, W.1. (Sponsor, APRR.) Admission free. 10 a.m. to 7 p.m.
JULY 4-6

Exhibition of Students Work, Polytechnic School of Photography. At the Regent Street Polytechnic. The exhibition will include examples of portraiture, commercial, architectural and fashion photography. Arrangements have been made for twice-daily talks by camera experts. The public will be welcomed to the exhibition. Admission free. During the war the services of the School were enlisted in the National Service, training 1,600 students in their special course for operation in the Army Kinema Service (AKS). Three members of the Polytechnic staff were assisted by the 12 Staff Instructors who had undergone special training. (Sponsor, Polytechnic School of Photography.)
JULY 4-6

Plan for Knutsford. Exhibition. At the RIBA, 66, Portland Place, W.1. The exhibition has been arranged by the *News Chronicle*. Admission free. Daily from 10 a.m. to 6 p.m. (Sponsor, *News-Chronicle*.)
JULY 4-5

Pottery and Hard Woven Tapestry by Lily Markus. Exhibition at the Batsford Gallery, 15, North Audley Street, W.1. 10 a.m. to 5.30 p.m.
JULY 4-13

Pottery. By Phyllis Keyes, decorated by the following artists: Edward le Bas, A.R.A., Jane Simone Bussy, Duncan Grant, Vanessa Bell, Pamela Diamond and Angelica Garnet. At Heal's, 196, Tottenham Court Road, W.1.
JULY 4-20

Lewis Mumford. Amongst Lewis Mumford's many engagements will be a lecture at the RIBA, 66, Portland Place, W.1, entitled *A World City for the United Nations*. The lecture has been arranged by the RIBA in collaboration with the Institute of Sociology. 6 p.m.
JULY 12

British Standards Institution Annual General Meeting. At the Institution of Mechanical Engineers, Storey's Gate, St. James's Park, S.W.1. Rt. Hon. Lord Woolton, P.C., C.H., in the chair (Sponsor, BSI.) 3.30 p.m.
JULY 16

AA School of Architecture. Annual Prize Day and Exhibition of Work. (Sponsor, AA.)
JULY 19

Building Materials and Components. Exhibition at the Princes Gallery, Piccadilly, W.1. (Sponsors, Ministry of Works and the Ministry of Health in consultation with the other Government Departments concerned.) Monday to Friday, 10 a.m. to 6 p.m. Saturdays, 10 a.m. to 1 p.m.
JULY 4 for about 3 weeks.

Social Services in USSR. Lecture at the Masaryk Hall, University of London, Malet Street, W.C.1. (Sponsor, SCR.) 8 p.m.
JULY 30.

Deana Levin. Soviet Schools. At the Masaryk Hall, University of London, Malet Street, W.C.1. (Sponsor, SCR.) 8 p.m.
AUG. 20.

SHEFFIELD. *Paul Cézanne Water-colours.* Exhibition at Graves Art Gallery. (Sponsor, The Arts Council.)
JULY 4-6

SUDBURY. *Plans for an Art Centre.* Exhibition at the Sudbury and District Planning Association. (Sponsor, The Arts Council.)
JULY 4-6

NEWS

THURSDAY, July 4, 1946
No. 2684 VOL. 104

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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.

★ Use of Standard Building Products, AESTHETIC OBJECTION MUST BE REMOVED: Alderman Charles Key.

We now have the opportunity to put into practice new ideas about materials and fittings and the design of houses generally, said Alderman Charles Key, Parliamentary Secretary to the Ministry of Health, when he opened an exhibition of building materials and components at the Princes Galleries, Piccadilly. The exhibition has been arranged by the Ministry of Works, Ministry of Health, Department for Health for Scotland, and other Departments. Continuing he said: We are determined to ensure that houses built to-day are not only better in size and arrangement, but in architectural treatment and construction, and that better materials and equipment are used for the ordinary man's home than has been the case in the past. The importance of standardisation is that it increases production capacity while ensuring a satisfactory level of quality, and does much to ensure the efficient use of machines, materials, plant and labour. Hand-in-hand with shortages of materials and labour go a tendency for prices to rise, and by means of standardisation it is hoped this will be checked. Aesthetic objection to standardisation is an awful bogey which still rears its head. We must once and for all dispose of the idea that standardisation means row upon row of precisely similar little houses, looking alike to the last brick, and that it means the elimination of all initiative and imagination in design. The standards now in use or being prepared are planned to produce the widest possible range of design and to remove monotonous uniformity. Of 250 recommendations made by the Ministry of Works' Standards Committee, 150 had been issued by the British Standards Institution. The exhibition is designed not as a series of attractive tableaux for the general public, but as a business-like display for the information and guidance of those concerned with the building of houses.



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From AN ARCHITECT'S Commonplace Book

AN AMERICAN ON THE AMERICAN CITY: PROSPECTORS VERSUS PROSPECT. [From *City Development*, by Lewis Mumford (Secker and Warburg).] The waterfront kept a hold on the city, modifying its character, longer than the countryside did. The oyster stands remained on South and West streets; and "mast-hemmed Mannahatta" was still an accurate description up to the end of the 'nineties . . . But most of the things that had made life pleasant and sane in the city, the old houses, red brick, with their white doorways and delicate Georgian fanlights, the friendly tree-lined streets, the salty lick and lap of the sea at the end of every crosstown street, as Melville described it in the opening pages of *Moby Dick*—all these things were disappearing from the eye, from the nose and touch, and so from the mind. The water and the soil, as the prime environment of life, were becoming "immaterial," that is to say, they were of no use to the canny minds that were promoting the metropolis, unless they could be described in a legal document, appraised quantitatively, and converted ultimately into cash . . . People staked out claims on the farther parts of the city in the way that prospectors stake out claims in a gold rush. There was always the chance that some negligible patch of earth might become, in the course of the city's growth, a gold mine. That was magic. In the atmosphere of magic, the desire to get something for nothing, a whole population hoped and breathed and lived. That in reality the environment was becoming unfit for human habitation in the process did not concern the Midas-fingered gentlemen who ruled the city, nor did it affect the dull-fingered million who lacked that golden touch: their dreams were framed within the same heaven.

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Following is the result of the RIBA ELECTION.

At a General Meeting of the RIBA held on June 25, the result of the annual elections to the Council was made public. Mr. Lancelot Herman Keay, O.B.E., M.A.R.C.H. (LVPL), of Liverpool (unopposed), was elected President. Here is an extract from the Scrutineers' Report giving the result of the election for six Members, three Associate Members and one Licentiate Member of the Council. A complete list of the new Council will be issued later by the RIBA.

Past Presidents.—W. H. Ansell, M.C. (unopposed); Sir Percy Thomas, O.B.E., HON. LL.D. (Cardiff), unopposed.

Members of Council.—Elected: 1, T. C. Howitt, D.S.O. (Nottingham), 1,339 votes; 2, C. G. Stillman, 1,301; 3, Victor Bain (Leeds), 1,077; 4, A. C. Bunch (Leamington Spa), 960; 5, John Swarbrick, 948; 6, S. W. Milburn, M.B.E., M.C. (Sunderland), 108. **Not Elected:** 7, Anthony M. Chitty; 8, C. H. Aslin (Hertford); 9, L. C. Howitt (Manchester); 10, Gordon Stephenson; 11, H. T. Seward (Manchester); Miss Joyce Townsend (near Cheltenham); 13, Herbert Jackson (Birmingham); 14, J. Ralph Edwards, R.W.A. (Bristol); 15, Christopher Nicholson; 16, Raglan Squire; 17, F. R. Steele (Chichester); 18, J. C. Shepherd (Henley-on-Thames); 19, J. P. Nunn (Manchester); 20, V. L. Nash; 21, Howard V. Lobb; 22, A. F. B. Anderson; 23, J. W. M. Dudding (Nottingham); 24, M. Hartland Thomas; 25, A. E. Henson; 26, T. N. Cartwright (Nottingham); 27, David Stokes; 28, Frederick Barber (Kingston-on-Thames).

Associate Members of Council.—Elected: 1, Professor W. G. Holford, 1,481 votes; 2, R. H. Uren, 843; 3, J. L. Cleace (Edinburgh), 598. **Not Elected:** 4, J. T. Castle (Bradford); 5, A. G. Ling; 6, W. E. Tatton Brown; 7, Birkin Haward (Ipswich); 8, Kenneth J. Campbell (Welwyn Garden City); 9, L. R. Stedman (Farnham, Surrey); 10, P. E. A. Johnson-Marshall (Coventry); 11, H. T. Cadbury-Brown; 12, Colin St. C. R. Oakes (Pipe, Sussex); 13, George L. Greaves (Stoke-on-Trent); 14, John Harrison (Kingston-on-Thames); 15, W. W. Fisk; 16, S. A. W. Johnson-Marshall (Hertford); 17, E. D. J. Mathews; 18, Winston Walker; 19, F. C. Otton (New Malden).

Licentiate Members of Council.—Elected: 1, W. Dobson Chapman (Macclesfield), 448 votes. **Not Elected:** 2, C. Bertram Parkes (Birmingham); 3, H. J. E. Pyne (Lancing, Sussex); 4, Guy H. Nicholls; 5, F. C. Wake-

ford (Bromley, Kent); 6, Gwyn H. Morris (Coventry); 7, H. N. Haines.

The three prize-winning designs in the architects' competition for the new STEPHANPLATZ AND KARLSPLATZ IN VIENNA are now on public exhibition in that city.

War damage to these famous areas, known to travellers the world over, was so extensive that they will have to be practically rebuilt. The architects' competition, the first stage in the reconstruction programme, produced 110 entries—forty-nine for the Stephanplatz and sixty-one for the Karlsplatz. Citizens' opinions on the choice made by the city council are invited. Chief feature of the winning design for the Stephanplatz, the work of Friedinger, is a block of very modern buildings on the site of the former Café de l'Europe, opposite the Cathedral. Although there is a lot of glass in the new building, it harmonises with the atmosphere of the city centre. The new plan provides for a number of arcades to give extra shop space and relieve pedestrian traffic in the actual square. A column of pillars is envisaged between the Cathedral and the Singerhaus. Much greater possibilities were offered to the architects for designs of the new Karlsplatz, and some of the plans submitted were most original. The winner, Hoch, suggests a small symmetrical square in front of the Karlskirche leaving the park in its former state. The entrance to Wiednerhauptstrasse would be closed. Fourteen of the designs have been bought by the city building office, which has also arranged a competition for plans for rebuilding the frontages to the Danube canal.

Mr. Lewis Silkin; The realization of the beauty and interest of nature is A VITAL COROLLARY TO THE PLANNING OF TOWNS.

A battle, however, said Mr. Silkin, still remains to be fought with industry, which has a tendency to override all aesthetic considerations. Mr. Lewis Silkin, Minister of Town and Country Planning, who was speak-

ing in London at a luncheon organised by the Society for the Promotion of Nature Reserves, said that the interest now being shown in national parks marks a big step forward, and he was looking forward to receiving, perhaps this autumn, the report of the National Parks Committee, presided over by Sir Arthur Hobhouse. He said: The problem of the preservation of wild life is not confined to national parks, and my regional planning officers are making full use of the work of the local committees of the Nature Reserves Investigation Committee, of which Sir Lawrence Chubb is chairman. The specialised work of caring for wild animal and plant life needs expert scientific advice. It will be a fine thing if a comprehensive amenity measure can be passed through Parliament, dealing with national parks, nature reserves, control of advertisements, preservation of footpaths, and access to wild country.

Architectural sight-seeing was an attraction at the party in Westminster College Garden — ENGLAND'S OLDEST GARDEN—to celebrate the return of Westminster School after six years' evacuation.

Generally regarded as the oldest in England, College Garden was originally the garden of the Benedictine Monastery, dating from 1065, when Edward the Confessor's Abbey was completed. A 14th Century wall still bounds the garden on two sides, and nearby is the remains of an anchorite's cell. On the third side is College Dormitory, the Wren building where the Latin Play was performed; although the Dormitory was gutted in the blitz, the Wren façade facing the garden is intact. On another side of the Garden was the Busby Library, gutted in 1940. An Inigo Jones building, Ashburnham House, reverted to School use this year and has been refurbished by the Westminster School Society, founded in 1937 by Lord Greene (Master of the Rolls) to provide a re-endowment fund for the school. The Society has also presented No. 17 Dean's Yard to the school. College Hall, former dining hall of the Abbots, is now where the school dines. It was from this hall in 1483 that Richard, Duke of York, was taken away to the Tower by his uncle, Richard the Third.



New Housing in Sweden

This week we publish an article and illustrations of projected and recently executed housing schemes and small-scale neighbourhood planning in Sweden written by a Swedish architect who has been visiting this country under the auspices of the British Council. The above photograph of

new flat buildings at Danviksklippon, at the entrance to the inner harbour of Stockholm, typifies the new Swedish housing with its stress on relatively small flat buildings carefully but informally related to each other and to the natural setting of rocks, pine trees and water.

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At the RIBA: A party for the staff by Sir Percy Thomas, the President; THEATRE AND SUPPER FOR THE PRESIDENT by the senior staff; and lunch for Mr. Edward Carter by the Council.

The retiring President of the RIBA, Sir Percy Thomas, entertained the staff of the RIBA at a party on June 18. To the staff especially his retirement brings a very real sense of personal loss. During his five years as President, he has taken a very keen interest in every member of the staff. His personal contact with them has resulted in a very happy atmosphere of pleasant collaboration. In particular, these ties were strengthened during the difficult war years, and the ease with which the Institute was able to re-absorb those returning from war service was, in large measure, due to this co-operative spirit. To wish Sir Percy good luck, but not goodbye, he was presented by the staff with two books and a pen. Later the senior members of the staff entertained the President to a theatre and supper afterwards. At lunch on the same day, the Council entertained Mr. Edward Carter, the late Librarian. In his toast the President referred to the very great part which Mr. Carter had played in the development of the Institute, and congratulated him on the important position which he was about to take up with the UNESCO. The President stressed how sorry all the members and staff of the Institute were at Mr. Carter's departure. He said that the Council were anxious to make some presentation to Mr. Carter in memory of his fifteen years valuable service, and that Mr. Carter had asked for a painting of his house at Keat's Grove. It was hoped to arrange for this to be done as soon as possible.

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During the next two years the Westminster City Council proposes TO SPEND OVER TWO MILLION POUNDS ON HOUSING.

Westminster plans to spend £4,460,000 in the two years 1947-48 and 1948-49, of which £2,767,000 will be on housing. The Finance Committee of Westminster City Council has received estimates making those totals from the Spending Committee, for submission to the Ministry of Health. Capital expenditure recommended for 1947-48 is £1,676,000; for 1948-49 £1,445,000, with repair and upkeep £722,000 and £617,000. Housing will take £1,128,500 for capital work and £420,000 for repair and upkeep in 1947-48; and £893,300 and £325,750 in 1948-49.

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Work has begun at Wesley Road, South Ruislip, on A 38-ACRE ESTATE OF 145 PERMANENT BRICK HOUSES.

The cost of the estate, apart from the site, is estimated at £184,762. The contract should be completed within 12 months, and it is expected the first houses will be ready within three months. The roads and sewers are ready, and Davis Contractors are going ahead with the houses. Each house will have an approximate floor area of 900 ft. super, and either two or three bedrooms. They are all to be traditionally built, with brick facings. From 400 to 450 men will be employed on the estate. Mr. C. W. Fox, F.R.I.B.A., is the architect.

THE FUNCTIONAL CODES

TWICE in two generations we have had long enforced cessations from practical building. The reaction of the moment is a desire to make up arrears at all hazards and, in the rush to build, standards of more contemplative times are going by the board. But the enforced period of contemplation was not without its victories and, after the first mad rush is over, we shall find time to incorporate the new advances in building technique. Some of these advances are being incorporated into what are called the Codes of Functional Requirements of Buildings.

Here we have codified a revolutionary change of attitude to many building problems: no less than a change from rule of thumb to scientific technique. We have substituted the Daylight Factor as a means of measuring the adequacy of natural lighting in a room, in place of the old byelaw standard "not less than 10 per cent. of the floor area"; we have substituted phon and decibel measurements of the adequacy of sound insulation in place of the usages of utter ignorance; we are correlating heat transmission through structures with domestic heating standards and national fuel resources.

The architect has increasingly to be a scientist as well as an artist, not in the sense that he requires a B.Sc. degree, but in that he needs to be versed in the scientific method, the logic of ascertained facts. Man does not live by bread alone, and he will still not be an architect who cannot weld his facts into an adequate emotional concept.

We do not doubt the architect will soon assimilate these new tools of design. Having stripped his æsthetic approach of its overload of historicism he has an admirable vehicle for such assimilation. Nevertheless, we do not delude ourselves that assimilation will be so easily achieved on the so-called practical and political sides of building. BINC, whilst accepting the new Codes in principle, is careful to state "The adoption of ill-judged recommendations involving heavy expenditure on such matters of 'Precautions against Fire' or 'Precautions against Noise' would have a disastrous effect if they led to unnecessary and excessive cost in materials labour and time." One suspects that the mere statement of such a truism hides a latent opposition, for the object of the Codes is to establish good general standards which will inevitably involve a progressive improvement in technique and, perhaps, almost certainly, in costs. Building standards can only be improved in so far as the community desires the improvement and is prepared to achieve the necessary superior output and these are the only arguments that need worry us. The builder, on the other hand, is suspicious of improved standards which are not obvious selling points and it is clear that the architect will have to shoulder the pioneering work in establishing the new codes.

The most stubborn obstacles will arise from the political, real estate or town planning viewpoints, where the vested interests in the *status quo* are so varied and so entrenched.

The new attitude to day-lighting and noise runs counter to long accepted principles of city layout, and it is hard to see how this urban trend can be reversed otherwise than in the large scale planning of clearance areas. What we might hope to see, however, is a new approach to those Town Planning ordinances which prescribe angles of "light and air" in relation to streets, with their preposterously conceived set backs at upper levels. Such regulations do not necessarily achieve good daylighting or good town building, and are latter day relics of the repressive negative type of legislation which the functional codes will, we hope, one day supplant.



The Architects' Journal

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N O T E S

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T O P I C S

RHODE TO GOOD DESIGN

Mr. H. Rhodes, M.P. for Ashton-upon-Lyne, recently made an ardent plea in the House for better industrial design. The nature of his statements indicated that he himself had a proper conception of what the term implies* and I hope his remarks will be noted by the Board of Trade, and the CID, to whom they were principally directed. The question, besides being urgent, is a very difficult one because good design, even of the industrial variety, cannot be just put on top. It is not even enough to train the requisite number of designers (one of Mr. Rhodes' pleas), although this will certainly help to secure a minimum average standard.

* To quote from Mr. Rhodes' speech: "The training should be (1) technology; (2) the use of materials; (3) the ability to appraise new materials; and (4) ability to appreciate suitability to purpose with sensitivity to form, colours and texture."

On the whole we are in a bad way as a country in the design of industrial products. If one hoped for a revival, the post-war near-utility models so far presented will sufficiently damp down optimism—take only wireless sets as the example. Clearly our manufacturers *do* use designers to turn out this sort of thing for it is marked all over with arty, stylised breaks, set backs and quirks, but, equally clearly, the designers they use are not up to their job. It is so easy to sell bad design to the ignorant and we fear that industrial design will become simply an appendage of the advertising profession, as indeed it is becoming. In this set-up the designer is put in to 'style' the product, which so often means in practice superimposing a swarm of streamlining over what is basically quite a sane and unassuming piece of work.

But this country has still a reputation second to none for the soundness and good design of some of its products, wherein conscious design for ornament's sake has played no part. One can instance scientific instruments, and some of the motor-cars of a decade back. The Terry anglepoise lamp is a good particular example. So impressed was an American visitor recently with this lamp that he took one back with him to the States, so sure was he that his countrymen could not produce anything quite so functional and unassuming, albeit satisfying, as this. Our weakness arises when we begin to design our products too self-consciously. As a nation we shall have to exist on the export of quality products, the sort of thing which requires refinement of line and elegance rather than the showy splendour of the more vulgar American type. Maybe the coming *Britain Can Make It* exhibition will show us

whether we are approaching this matter on the right lines and using the right talent. The exhibition will be a very serious testing ground. It is to be hoped fervently that it will not fail us, commerce notwithstanding.

POST OFFICE AT WAR

I don't suppose that the Post Office's account of its war effort (*The Post Office Goes to War*, HMSO, 1s. 3d.) is the last to appear but it must be near the end of the queue. It is a little disappointing. Perhaps we have been spoilt by the excellences of so many of the earlier popular official chronicles. Perhaps we expect now a really solid analysis of the problems and of their solution, something that before the war the official mind would have said was far above the popular taste.

The photographs are good, if not inspired, and the story should be thrilling enough. No Government department has served the public and the Services (perhaps the order should be reversed) better during the war than the Post Office. Yet this chronicle has a rather tiresome superficiality, as though the author was underrating his public and believed that yet another account of the PO tube in London would be of greater interest than, say, a detailed description of the Fighter and AA 'phone circuits on which the Battle of Britain was fought.

Still, the reputation of the Post Office will not suffer. I shall look forward to my daily chat with my postman with the same degree of pleasure at their normality as I did when our conversation might at any moment have been interrupted by a flying bomb (oddly enough, they never were—the early morning delivery of flying bombs always seemed to be about half an hour ahead of the post).

PLANNERS OUT OF UNIFORM

Recalling an account of the activities in Burma of two architect-planners in *uniform*, which appeared a short time ago in the AJ, I was particularly interested to see the work of recently demobilised architects, engineers and surveyors—apart from several partly



LETTERS

Clive Entwistle

E. R. B. Roberts

Ian H. Abbott

Crystal Palace Competition

SIR.—The lay school teacher who presumes to criticise your reviewer Mr. Maxwell Fry for having failed to give more than "a cursory glance at the schemes submitted" and "for not having read the conditions," then proceeds to implicate himself grossly on both those very charges.

He claims that scheme No. 72 ignores what he claims were two conditions. First, that the exhibition halls should be low. This very relative term in the original conditions was qualified in the Assessor's answers to questions to read "not exceeding 50 feet" in height. In the scheme your schoolmaster considers to have violated this condition, the exhibition height from floor to ceiling at the highest point was 40 feet stepping down by 5 feet intervals to 25 feet at the lowest. The floor to ceiling height within the Pyramid was 20 feet, and it was nowhere stated that exhibition floors could not be superimposed.

He secondly states that it was a condition, to quote his words, "that glass should not be used." This naive invention presumably finds its origin in the Assessor's remark that "another glass palace" was not envisaged, and why: because the heating costs of the old building were excessive. It was, however, required that "the exhibition halls should be well lit," and how this may be done in our climate without the use of glass or its synthetic equivalent the architectural profession will be eager to learn from this school teacher. It might be added that the heating costs of the glass-brick walled pyramid were estimated by a distinguished M.I.H.V.E. and found to be less than that of a cuboid building with normal depth and glazing, and very much less than such a building with the same average daylight illumination per square foot of floor area. The Assessor's requirements were thus fully satisfied. We are told we have glazed the walls of the cinema. No cinema, however, was asked for by the Assessor, and so far as I know, no competitor presumed to provide one. It was asked that in the case of the smaller concert hall "cinematograph facilities be provided," and they were. In

through their planning studies when they were called up—who have just completed the second three months' course at the School of Planning, sponsored by APRR. The occasion was the opening of an exhibition of their work during the course. At the same time I saw a selection of survey work which the Association has in hand. Professor Holford, in opening the exhibition, directed his remarks to a review of planning prospects in this country, and the preliminary spadework done during the war years by the few men left on the job.

Armed with the authority and administrative qualities acquired in their recent military rôle, and the final touch of three months' intensive work to the correspondence course in planning, also organised by the school, these ex-Service planners deserve the opportunity to assist in a substantial way, not only with the *rebuilding*, but the *replanning* of our rural and urban patterns. Fresh from wider fields, these men can bring an approach to problems which should not be cast aside by those in Parliamentary and local power.

The students of the school took full advantage of the presence of Lewis Mumford and Professor Holmes Perkins, Head of the Department of Planning at Harvard University, who were among the many guests at the opening of the exhibition, and were obviously out to make the most of this opportunity. It is one of the many excellent features of the work of the school to invite distinguished planners to come and assist with criticism and advice, and further to talk informally with these men, who have been for so long divorced from their careers.

COMFORT IN RADIO CONTROL

Turning the dignified pages of the new *BBC Quarterly*, I found, among some highly technical diagrams which were worse than Greek to me, some notes on an ingenious and good-looking piece of functional furniture which BBC engineers evolved under stress of war, and have since developed for continued use. It is a control desk intended to meet various requirements postulated by H. D. Ellis, A.M.I.E.E., of the Corporation's design and installation

department—notably "simplicity and comfort in operation . . . convenience for maintenance . . . the studio to be a self-contained unit."

This control desk had to be no more than 3 ft. 3 in. in height to give anyone sitting at it an uninterrupted view of the studio; it had to have one side completely unobstructed so that programme engineer and producer could sit side by side; its control knobs and switches had to be mounted on detachable panels which could be swung out for maintenance; and it had to provide forearm support so that the twiddling of those knobs and the switching of these switches could be easily and accurately accomplished without strain. All these requirements were met and the result was still good to look at; surely a minor triumph of intelligent design applied to a technical problem.

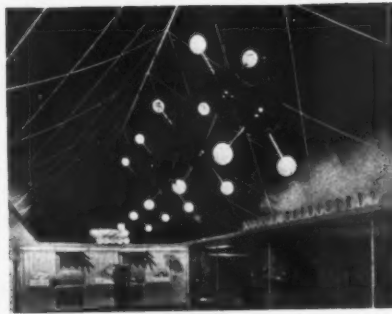
Moreover, the carcase of the desk is designed in three pieces that bolt together so that any combination of panels can be fitted to it. Normally, a logical layout is used, with purely technical controls on the left, mixing and control knobs in the centre, and the things the producer is most likely to want to play with on the right; so there is no need for engineer and producer to get into embracing, or embarrassing attitudes during tense moments.

ASTRAGAL



BBC Control Desk. See Astragal's Note.

RESEARCH EXHIBITION



At the Chemistry at Your Service Exhibition, sponsored by Imperial Chemical Industries and held in London. Top, the future of chemistry—an artist's graphic representation which forms the tailpiece of the mural on the ceiling. Bottom, left, the war on insect pests. Bottom, right, a design symbolizing the molecule upon which the structure of modern research is built. The architect for the exhibition was Mr. Basil Spence, A.R.I.B.A. (of Roward, Anderson, Paul and Partners): the designers, Messrs. Robin Day, M.S.I.A., James Gardner, M.S.I.A., F. H. K. Henrion, M.S.I.A., V. Rotter, M.S.I.A., and Lynton Lamb. The mural was by Mr. John Hulton. Mr. Spence is the architect for the forthcoming Britain Can Make It Exhibition.

our design this hall was not glazed. The glazing of the symphony concert hall is a legitimate if novel amenity. The view through the side walls, by sunlight or moonlight, of water and fountains on one side, or lawns, flowers and trees on the other,

might to some eyes be a more fitting visual supplement to a symphony than the usual alternative of dinner jackets, bald heads and spectacles featured by the average modern orchestra.

If this school-teacher supposes that it was

non-compliance with the conditions which excluded this or any other scheme, he should address himself in penance to a close study of the winning design in relation to the conditions, including questions and answers, when he will find that the scheme fails to comply with a very important condition, and one which was obeyed in design No. 72, after much debating, to its detriment.

CLIVE ENTWISTLE

London

Bigger Railway Wagons

SIR,—I would like to quote Mr. H. Kelway-Bamber—a past-president of the Institution of Locomotive Engineers: "The author has seen a 3-ft. 6-in. gauge train of 45-ton bogie wagons automatically discharge hundreds of tons of coal in no more time than was involved in transferring the locomotive from one end of the train to the other to carry the empties back to the collieries. What a contrast to the antiquated practices still in vogue in this country."

In regard to Astragal's note, *On and off the Rails*, may I point out that practically all American coaches are open saloons—similar to London's buses—and are, naturally, much more airy than our stuffy compartment carriages.

If such coaches were used in England, one of them could easily be converted into a playground for children, by removing three-quarters of the seats and placing a long bench a foot from the sides, for children to sit on and look out of the windows. A small bar could be installed for the mothers to get milk, hot water, sweets, etc. Your readers will recall that I dealt with this coach question in a letter in your issue for January 31 last.

St. Neots.

E. R. B. ROBERTS.

Devastated Cities

SIR,—I have just spent a short leave in Cologne in an endeavour to see for myself something of the devastation in one of the worst shattered cities in Europe.

One's first impression is that the bombing only finished a fortnight ago. The task of clearing away the rubble is immense. Miniature railways have been temporarily laid down in some areas, but even the result of nearly 12 months' work makes but little impression upon the areas of devastation. In the neighbourhood of the cathedral you can still walk through streets and streets of wreckage, with debris piled high on either side of the 3-ft. pathway, which was once a road.

The cathedral itself bears the scars of its 16 bombs, which have done much damage to the ornamental stonework, but which do not seem to have affected the stability of the structure. The roofing has suffered badly, and the vaulting in the nave and transepts has in some places completely collapsed.

Although one realises that at home there are still terrific problems of reconstruction yet to be solved, one does hope that architects will not be so engrossed in their work that they will have no time to consider how best they can help these devastated cities.

I would like to feel that if, under present circumstances, it is not yet possible to offer any material help towards the solution of this problem, the profession at home (students' section included) is doing its best to become acquainted with the conditions over here. We must not close our eyes to what is surely one of the greatest tragedies in the whole history of architecture. This letter is not written as an appeal specifically for the cities of Germany, but for the many cities all over the continent, whose architecture has literally been reduced to dust.

IAN H. ABBOTT

Sweden has none of the great planning problems with which we are faced in this country, says the author of this article. Physical planning is mainly confined to additions to existing towns in the form of fully equipped neighbourhood units. Recently constructed or projected schemes are here described and illustrated, including the new project for Guldheden in Gothenburg, which was the winning design in a competition. Mr. Hulten was among the group who designed this scheme. He is now working with VBB the well-known firm of engineering and architectural consultants, and has recently been on a visit to this country under the auspices of the British Council.

NEW HOUSING AND PLANNING IN SWEDEN

[by Bertil Hulten]

When we talk about town-planning in Sweden we merely mean the layout for an addition to the outskirts of a town. Sometimes it may be a question of road-widening or a change in an existing plan. But Sweden is not faced with Great Britain's gigantic problems—blitzed cities, slum clearance and relocation of industries. The industrial revolution in Sweden came later than in Britain and much more gradually. And there are not more than 6½ million people in an area twice the size of Great Britain.

Some big schemes have been undertaken, e.g., the regional planning scheme for the Gothenburg district (not yet published in popular form). And Stockholm is going to have a new master-plan, a survey for which has been recently started. The plans which can be shown now are, however, on a small scale—real detail planning. In dealing with them we start from the smallest units, from the different types of household we want to accommodate, and their requirements.

There is not the same distinction in Sweden between architects and town planners as in Britain. Town planning is included in the education of architects at the universities (there are only two, both State-owned), and all Swedish town planners are qualified architects who have specialized in planning later on in their work. Should town planning develop into a distinct profession, I think members should stop their actual architectural work at a certain stage, deal only with regional planning and

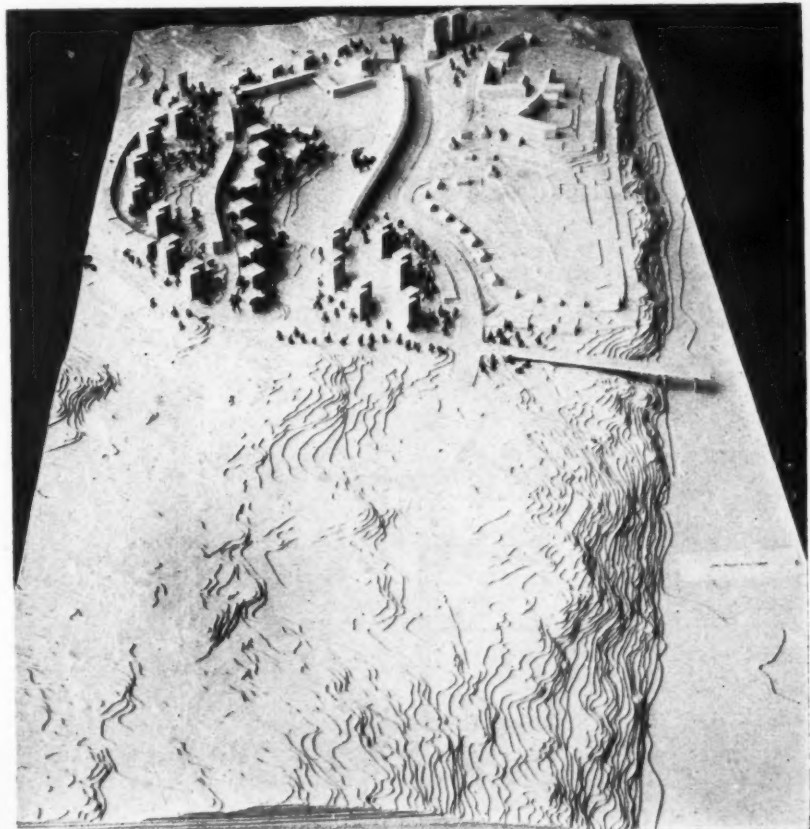
zoning, and never go on into architectural details. They should leave that to the architects proper.

The following illustrations and captions will give some idea of current small scale planning and housing in Sweden.

The first illustration, on this page, is the model of the winning design in a competition for a housing scheme at Guldheden in Gothenburg, which was held a year ago. The first, second and third prizes were all won by one group of architects—S. Erichs, B. Hultén, L. Landeberg, G. Lindman, S. Lindström and K. Aström, co-operating with the engineer B. Gustafsson on road

layouts and sewerage. The site is very hilly with high cliffs and deep valleys through which run small streams—a very beautiful part of the town. As it is centrally situated, one of the main proposals was that the buildings should be concentrated, leaving a large area as a natural park for the benefit of the townspeople of Gothenburg. For financial reasons the road system had to be as simple as possible.

The winning design has as its main feature three rows of three-storey "lamell-buildings," partly to bind the whole scheme together and partly to shelter the roads from the strong winds coming in from the



Right, model of the winning design in a competition for a housing scheme at Guldheden in Gothenburg, won by S. Erichs, B. Hulten, L. Landeberg, G. Lindman, S. Lindström, and K. Aström, in co-operation with the engineer, B. Gustafsson. This group also won second and third prizes. The winning scheme will be built in 1947. The open area in the foreground of the model will be developed later.

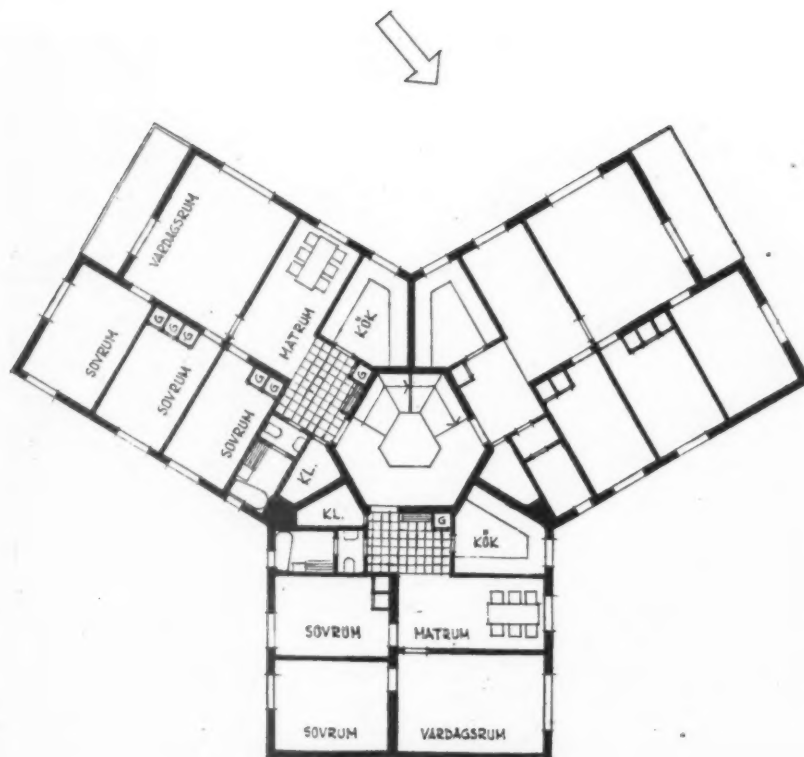


Skagerrack, which the site overlooks. Models and details for one half of the site were asked for, and this will be built in 1947 and will provide accommodation for about 4,000 people.

To stress the dramatic features of the landscape, nine-storey "point-buildings" will be erected on the two hills, while a row of three-storey point-buildings will lie along the slope of the main valley. Pleasant visual variety and contrast is given to the road running along the valley in that one side is closed and the other has rhythmic openings filled with vegetation. The scheme also includes a school at the bottom of the valley, some three-storey point-buildings along the existing road and a "kollektrohus" nearest to the main part of the town. This building will contain about 10 per cent. of the total population, composed of single people, newly married couples and couples with no children or with only one child. In the main valley there are youth clubs and day nurseries. The second section which will be developed later will include shopping and cultural centres.

* Or collective building, a type of service flat block run on hotel principles with communal amenities, especially suitable for people who have little time or inclination for domestic work.

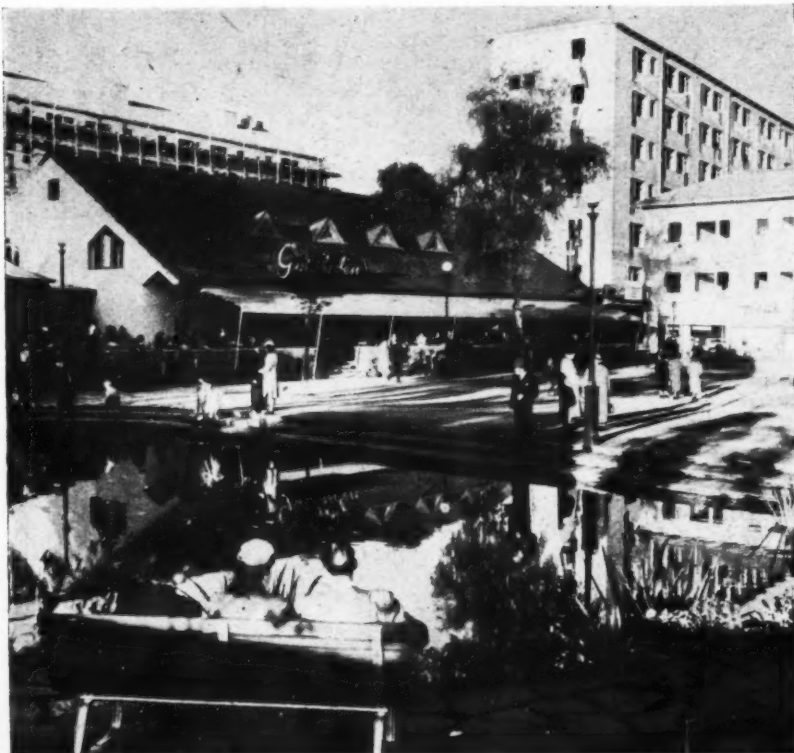
Left, typical floor plan of one of the nine-storey "point" buildings in the winning scheme for Guldheden, the lay-out model of which is shown on the previous page. "Matrum" means dining-room, "sovrum" bedroom, "kök" kitchen, and "vardagsrum" living-room. The central staircase, lit through the lift shaft, gives access, at each half landing, to two flats.



Typical floor plan of a "star" building, a new type incorporated in the third prize design for Guldheden. Star buildings have a central staircase giving access to three flats on each floor, and their size and planning can, of course, be varied. They have an economic advantage over other types having access to only two flats on each floor.



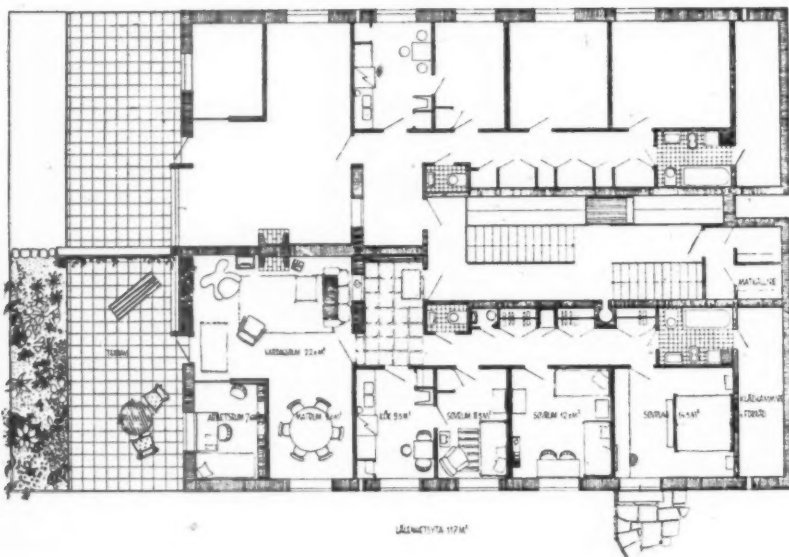
Adjacent to the Guldheden site is a new estate already built up and designed by G. Wejke and K. Ödeen. Seven-storey point buildings and three storey lamell buildings, with different types of flats in each, form the main part of the neighbourhood unit. The scheme also includes a market-place, with restaurants, shops and a community centre. Other communal facilities are a cinema, a central laundry, a Finnish steam bath, a central garage, and district heating. Additional laundry facilities are provided for laundering on a small scale in the basement of each block of flats and, in the case of baby linen and small articles, in every bathroom.



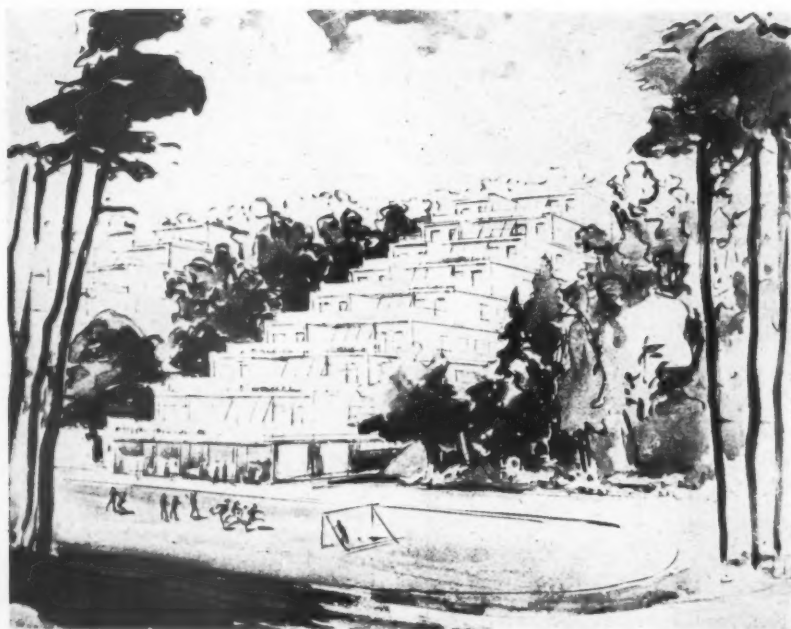
The market place in the Gothenburg estate, of which the lay-out is shown above. On the left is the restaurant.



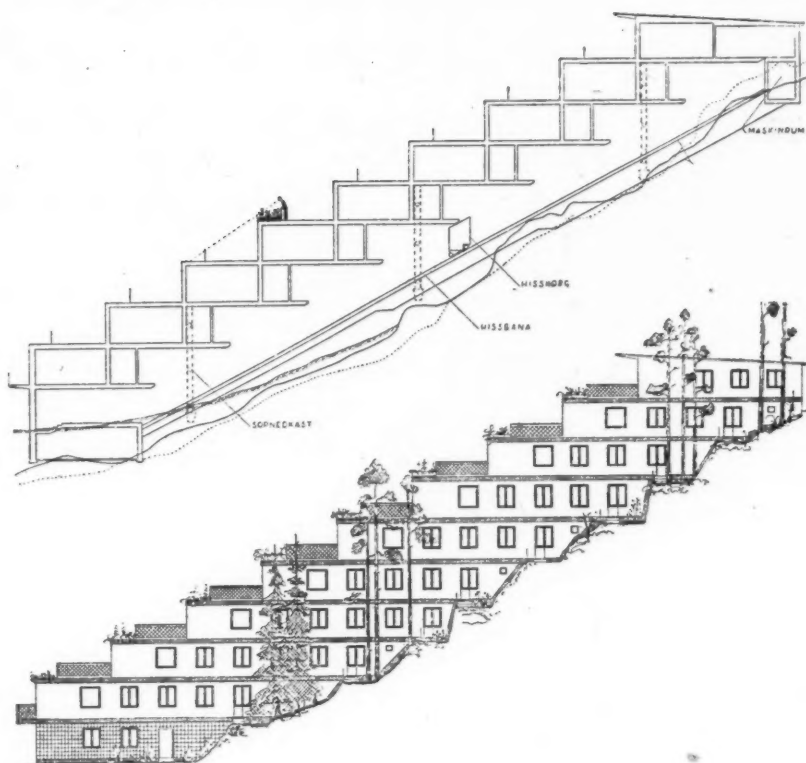
Model of a project for a dormitory satellite neighbourhood outside Stockholm at Saltsjöbaden. This is rather an exclusive district with fine golf courses, bathing facilities, skiing hill and other sports facilities. The design by S. Lindström and G. Lindman will provide homes for some two thousand inhabitants. The scheme is concentrated in order to leave as much open ground as possible, and includes eight terraced blocks, a dozen star buildings, a group of cottages and ordinary row houses.



Typical plan of the terraced blocks. Main entrance is at the bottom of the slope and a lift glides up the centre of each block. There are two flats to every floor of four to six rooms and kitchen with a large terrace to each flat. In the front of each terrace is a wide flower bed giving privacy to the terrace below. Each flat has direct access to the gardens at the side through a door in one of the bedrooms. The central staircase leads out at the top to a small road.



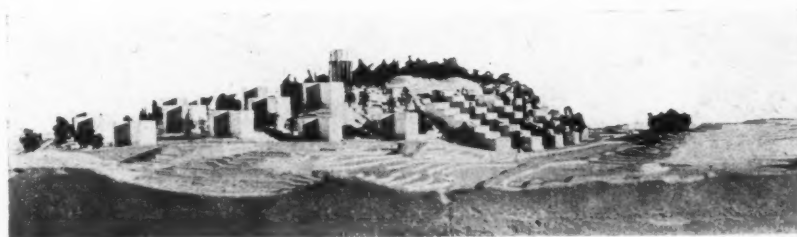
A sketch of the terraced flats lying on a rocky slope in the Saltsjöbaden project.



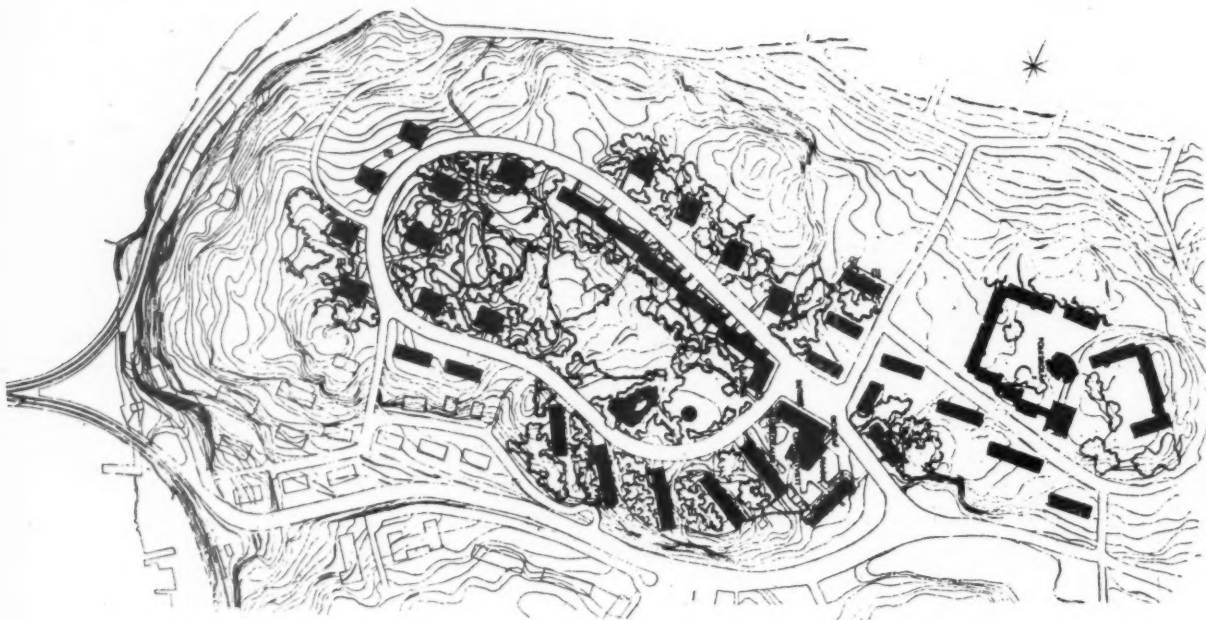
Side elevation and section of the terrace flats. "Sopnekast" means rubbish chute, "hissbana" lift track, and "hisskorg" the lift itself.



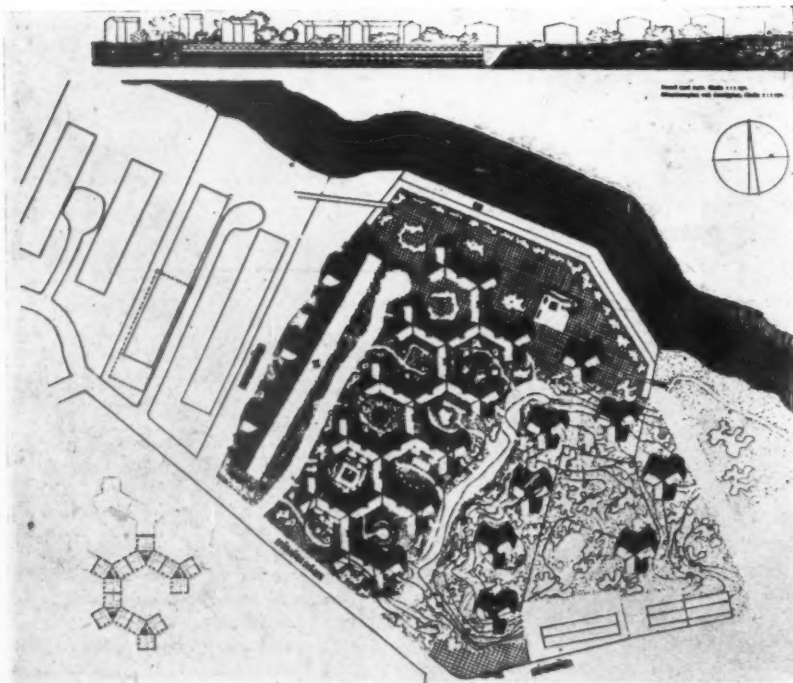
Sketch of the star buildings in the Saltsjöbaden scheme designed by S. Backström and L. Reinius. They are designed on the same principle as the flats whose plan is shown on page 8, with central staircase and three flats to each floor.



Another view of the model of the Saltsjöbaden scheme showing the star buildings in the foreground. The watertower in the background was not designed as part of the scheme.



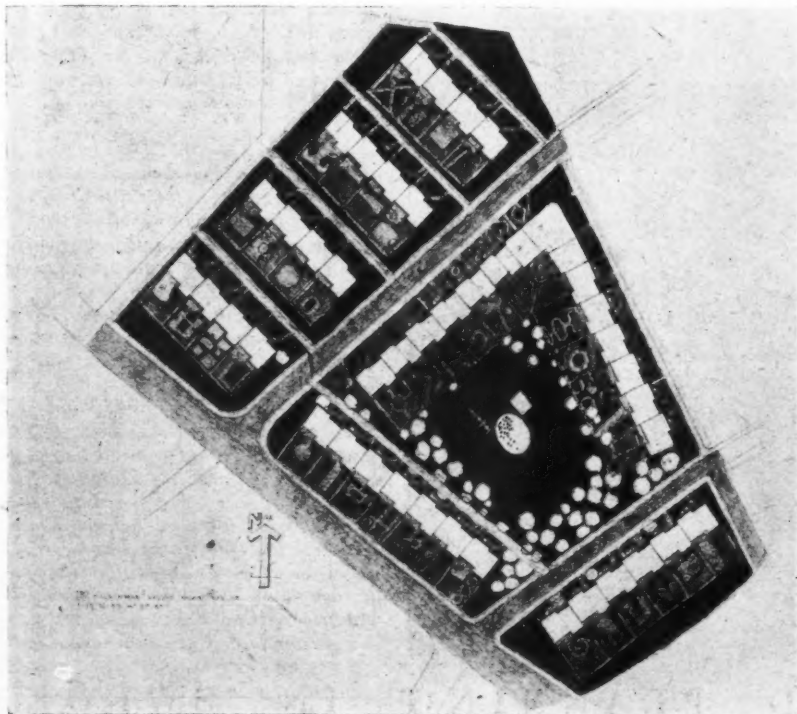
Lay-out of a new estate at Torsvik on Lidingö, Stockholm, by S. Ancker, B. Gate and S. Lindegren. It is situated at the bridgehead of the island and is composed of three-storey lamell buildings grouped in one long row and in smaller units, as well as point buildings of three and six storeys. The contrast between the long row of yellow rendered lamell buildings and the red brick point buildings surrounded by trees forms an interesting composition. The area has district heating and includes shops, central laundry, cinema, club and hobby rooms and a nursery. The neighbourhood centre containing the communal facilities is the large block approximately in the middle of the site; the school buildings are on the extreme right.



At Gröndal in Stockholm another neighbourhood unit is in course of construction having star buildings joined together to form courtyards open at one side. The architects are S. Backström and L. Reinius.



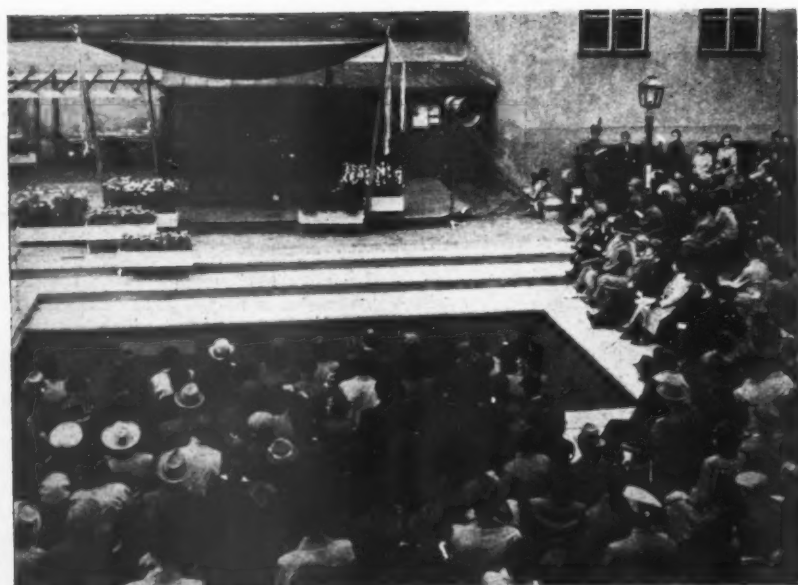
A housing project, also by Backström and Reinius, for the city of Enköping. Here the low two-storey buildings are grouped together and form small partly enclosed spaces which contrast pleasantly with the large open space in the centre. The orientation of the buildings is carefully worked out to provide the maximum amount of sunlight. Shops and other communal buildings are at the entrance to the neighbourhood near the main road.



Layout for a small housing scheme at Lidingö, not yet fully complete, by E. and T. Ahlsén. Here the houses are in rows (so-called terrace housing), a form of building which is not as generally applied in Swedish suburbs and country towns as it should be, with its advantages of unified street architecture, greater friendliness and yet more seclusion. This scheme is limited to only 250 inhabitants. Each house has its own small private garden surrounded by low wire netting, and there is a large central communal garden which contains a pool and other facilities for children. District heating is applied here also.



Photograph of the small row-houses at Lidingö, the lay-out for which is shown in the previous illustration. Each house has two articulated parts—the higher part containing living-room on the ground floor and bedrooms on the first floor: the lower part containing entrance hall, kitchen, bathroom and storage.



The old part of Stockholm is concentrated on a small island in the centre of the town. It has narrow, winding streets and the buildings, which are rather high, are a mixture of flats, old municipal buildings and churches. This ancient part of the city has a romantic and historic charm which is appreciated not only by tourists but by the people of Stockholm too. The buildings, however, are obsolete and insanitary, but instead of being pulled down indiscriminately, they are being reconditioned inside while the façades are being retained. Some of the buildings inside the blocks are being removed to provide more sun and air and courtyards where children can play and flowers can be planted. Central heating, lifts, new kitchen and bathroom equipment and electrical wiring are installed to provide a high standard of living accommodation.

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

2606

Distribution of Industry

PLANNING LOCAL PROSPERITY. K. G. Fenelon (*New Era Pamphlets, Art and Educational Publishers*, 1946, 1s. 6d.) Study of effects of geographical distribution of industry on development and prosperity of localities. Illustrated.

A historical survey of the impact of industrialisation on the population and the land is followed by an account of garden cities in Great Britain built with the aim of integrating industrial development with housing, recreational facilities and communal amenities. The changes in industrial structure between the wars are examined and tables are provided showing

Declining Industries, 1923-1938.

Expanding Industries, 1923-1938.

Regional Concentrations of Industries, based on the 1935 Census of Production, Examples of Ill-balanced Areas, Percentage of Male and Female Workers Employed in Certain Industries.

These tables show clearly the influence of industrial patterns on the various localities.

It is stated that local prosperity depends in the first place on maintaining the efficiency of existing industries. Special attention should be given to technical education, to the training of operatives and craftsmen, to the design of products, to industrial and scientific research, and to the co-operation between local industries and local authorities in the provision of design centres, trade museums or exhibitions.

Each region should have sufficiently diversified industries to afford steady and remunerative employment in accord with its community pattern. Seasonal trades should dovetail with each other. The establishment of trading estates and of minor industries should be encouraged. Where an industrial balance cannot be obtained a transference of the population in family or better neighbourhood units is suggested.

The prosperity of an area should be substantially furthered by the efficient performance of the local authority's administrative duties. Local surveys of resources and industries should be undertaken with a view to keeping all concerned informed about their locality.

In an appendix the measurement of industrial location factors as devised by Prof. S. Florence, is demonstrated. (See also *Architectural Review*, March, 1943.)

France during the war in reinforced concrete.

The Longeray viaduct, which spans the Rhone at a skew of 45 deg., 212 ft. above low water level, was destroyed in June, 1940. The old structure, carrying one railway track, consisted of four steel spans on tall masonry piers, with five masonry approach arches. Since no structural steel was available, the reconstruction was done in reinforced concrete. The new viaduct comprises three parabolic arches of 196 ft., 228 ft. and 174 ft. respectively, with an approach of three small semi-circular arches. The main arches are hollow and of rectangular section.

Work commenced at the beginning of 1941 and the bridge was opened to traffic on August 1, 1943.

The article describes some details of construction.

2608

Excavation

EXCAVATION IN DIFFICULT GROUND.

R. Glossop and H. G. Golder. (*Journal of the Institution of Sanitary Engineers*, April, 1946, Vol. XLV, p. 301.)

Methods of soil stabilization for excavation in waterlogged and unstable ground. Trench excavation for deep sewers. Stability of retaining walls. Methods of estimating earth pressures. Examples of practical application.

The subject of this paper is outside the normal scope of the architect, and deals with questions that are the concern of the civil engineer. Nevertheless it should be noted as an important review of the present state of knowledge in the application of soil mechanics to soil and foundation problems in bad ground.

2609

Foundation Troubles

SOME FOUNDATION TROUBLES WITH SMALL HOUSES. L. F. Cooling.

(*Journal of the Institute of Sanitary Engineers*, April, 1946, Vol. XLV, p. 327.) Causes of settlement and subsequent cracking of house walls. Occurrence shown to be widespread on clay soils. Caused by changes in moisture content of subsoil. Investigations by the Building Research Station. Tree-planting close to houses as an established cause of failure. Soil creep on clay slopes. Necessity for increased foundation depth in certain conditions. Underpinning as a remedy for existing damage.

Recent investigations by the Building Research Station have shown that severe cracking of walls due to soil movement is far commoner than is generally realized. A series of exceptionally dry seasons has caused clay subsoils to dry to an abnormal depth, and led to many failures. Mr. Cooling's paper is probably the first contribution to the subject to be published, and is of particular interest to the architect and builder.

Of particular interest is his observation that some trees—poplars seem to be the worst offenders—are a menace to house property when planted too close to walls. By drawing water from the subsoil trees cause clays to shrink, leading to foundation settlement and cracking of the walls. A minimum distance of 25 feet is recommended between any tree and the nearest point of the building, if damage is to be avoided.

As the depth below the surface increases, movement due to seasonal changes in water content of the soil becomes less, until at about 6 feet there is no appreciable change. The shrinkage can be as much as $\frac{1}{4}$ in. in the first foot, decreasing to about $\frac{1}{4}$ in. in the fourth. To eliminate the possibility of damage to walls by foundation settlement the footings need to be placed at a depth of at least 3 feet in a fat clay subsoil. Drying shrinkage is more pronounced on the southerly aspect of the house, and it is usually here that walls crack and corners drop away. Footings such as for bay windows and porches should be carried down as deep as the main foundations, or made integral with them, otherwise damage due to differential movement is likely.

Another problem is the gradual creep

STRUCTURE

2607

French Viaduct

THE RECONSTRUCTION OF THE LONGERAY VIADUCT. Leslie Turner. (*Concrete and Constructional Engineering*, March, 1946, pp. 62-68.) Large viaduct over Rhone reconstructed in



The reconstructed Longeray Viaduct across the Rhone. See No. 2607.

downhill of surface layers of clay in clay slopes. London clay is particularly liable to such movement, even on slopes as flat as 1 in 10. The depth of subsoil affected by such movement may be up to 6 feet. In such cases the remedy is again an increase over normal foundation depth.

Much has still to be learned on the subject, but the recommendations in this important paper should do much to prevent this irritating and expensive type of failure in house property. There are two sketches, contributed to the discussion by Mr. R. Glossop, illustrating how and how not to underpin walls that have already failed due to settlement, effectively condemning the usual procedure in such cases.

2610

Soil Stabilization

PROBLEMS OF SOIL STABILIZATION AND THE SCIENTIFIC CONTROL OF CONCRETE FOR ROADWORKS. *H. Donovan Gauntlett.* (*Journal of the Institution of Municipal and County Engineers*, May 7, 1946, Vol. LXXII, p. 385.) Experience of site control measures designed to obtain uniform high-quality concrete in housing scheme. Methods of testing used. Problem of obtaining uniform supplies of aggregate. Reasons for choice of central mixing plant, and its layout. Investigation of optimum use of man-power. Site control laboratory described. Problems in applying a new technique. Sample test data. Extract from Specification used.

This detailed and technical paper reviews experience gained on the Leagrave Housing Site at Luton. It is an important contribution to the problem of obtaining the high quality concrete for roads demanded by the contract specification. The test procedures used by the author might appear over-elaborate to some, but it is a fact that the concrete quality demanded by a specification is simply not obtained owing to inadequate site supervision, and ignorance on the part of site staff of fundamental principles involved. The latter part of the paper, in which the aggregate supplies problem is discussed should be of particular interest to architects concerned with housing site preparation. The paper is fully illustrated, and details of the equipment used and its cost are given. The Specification worked to is printed as an Appendix.

LIGHTING

2611

Colour

VITAL COLOUR. (*Lewis Berger and Sons, Ltd., Morning Lane, E.9*, 1946, 25s. Nature of colour vision. Classification of colour. Influence of the illuminant and the surface. Selection of colours for use. Example applications.

This is trade literature of a remarkable kind, for its text contains an unusually lucid and sympathetic discussion of colour science, and the illustrations are most excellently devised and finely printed.

The booklet commences with a description of the nature of colour vision, so far as it is understood, and admirably overcomes the real scientific difficulty of finding easily understood words for complex ideas. For instance, the authors succeed well in explaining the awkward point about additive and subtractive colour mixtures. A short, but sufficient reference is made to colour-classification, particularly on the Munsell system, and there is an important section on colour preference, which is in effect a

study of colour harmony. Treated on scientific lines there is a refreshing objectivity about this passage, when one recalls many frustrating attempts to treat harmony in aesthetic terms. Colour harmony is slowly finding its way towards some such mathematical basis as underlies musical harmony. The last major item in the section on theory concerns the specific question of pigment-colour on surfaces, and the influence of the light which falls upon it.

It is singularly unfortunate that the excellence of the beginning is not maintained into the section on application. The text is fairly satisfactory, but the illustrations are misleading, particularly in respect of the effect of the illumination on the decorations. The light is neither natural nor artificial; it is magical—it gets everywhere, completely glare free, despite some very doubtful artificial sources and some obviously contrasty windows which would almost certainly be glaring. A nice touch is the fitting of fluorescent tubes in the ceiling above each bed in a hospital ward, just where they would shine in the patients' eyes. Some of the design in the living room and kitchen illustrations is also well below the standard one expects from the first part of the booklet.

Despite these defects, it is still fair to call the booklet unusually good trade literature.

2612

Factory Lighting

FACTORY LIGHTING. *By a member of the Albert Kahn firm of Architects and Engineers.* (*Architectural Record*, November, 1945, p. 135.) Next steps: Cold-cathode lighting and coloured machinery, windowless factories.

This is a brief but naturally authoritative statement of trends in American lighting practice. The points are easily summarised as follows:—

1.—Cold cathode fluorescent lighting will be the next general step forward, and may prove as great an advance over hot cathode tubes as the latter did over incandescent.

2.—Coloured machinery will become general. Its effect on efficiency, morale and cleanliness impossible to measure, but is undoubtedly important.

3.—Windowless factories are feasible for precision manufactures which require temperature and humidity control, but there is no conclusive data to show that it is practical for other operations, or that lower maintenance costs will offset the extra investment required in conditioning equipment. Possibly the roof glazing can be dispensed with and side lighting kept; if a plant requires artificial lighting it is doubtful whether the cost of roof glazing is justified. Completely windowless (blacked out) factories seemed satisfactory to night shifts and to other shifts often in winter; but there was noticeable restlessness and lowered morale during warmer and pleasanter weather.

2613

Lighting Faults

PRODUCTION SLOW-DOWN DUE TO POOR LIGHTING. *H. Miedendorp.* (*Rayon Textile Monthly*, April, 1945, p. 83.) Common lighting faults. Types of equipment. Maintenance charts. General principles.

2614

Showroom Lighting

PRACTICAL SUGGESTIONS FOR RESIDENCE LIGHTING SHOWROOMS. *R. W. Vershure.* (*Lighting and Lamps*, November, 1945, p. 32.) Sales display requirements. Summary of rules.

This is a lesson in American salesmanship, with some points on the design of showrooms for lighting. Most of the article comprises twelve rules, of which the relevant

ones, summarised, are these:—

1.—Large items to be on at least 2 ft. centres, preferably 30 in., at least 6 ft. 6 in. from floor.

2.—Each outlet is worth money; samples not on display won't sell.

3.—Display ceiling type samples on an 8 ft. sub-ceiling, rows 18 in. apart, with outlets staggered at 18 in. centres.

4.—Recreation room fixtures and porch ceiling types look best in a warmy chestnut panelled room; brass colonials in a papered room with white dado; crystals against soft blue or grey; early Americans on knotty pine; ultra-modern walls with mirrors for kitchen and bathroom types.

There is a neat summary of the three main trends in American home lighting; modern, colonial; and conventional. But the period doesn't matter if the choice is right.

Compare all this with the now Post-war Building Study on *Lighting* which emphasised that one has to see a light fitting in operation in a showroom, not hanging in a forest of others where one cannot appraise the light it gives.

ACOUSTICS
and Sound Insulation

2615

Loudspeaker

A HIGH QUALITY LOUDSPEAKER OF SMALL DIMENSIONS. *P. W. Klipsch.* (*Journal of the Acoustical Society of America*, January, 1946, p. 254.) New design of horn loudspeaker for domestic and general use.

It is well recognized that two or more loudspeakers working in appropriate frequency ranges have advantages in reproduction over a single speaker. The high frequency component in normal designs has often unsatisfactory characteristics, and the paper describes a new one which is said to be singularly free of distortion.

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.

2616

Copper Pipes

Q I am putting a new heating system into a house and I should like to know whether I am likely to have any trouble from the use of copper supply pipes as it is proposed to use rainwater as far as possible, supplemented with well water when necessary. The chief reason for this is that the well water is very hard.

A It is almost impossible to give any opinion without an analysis of the water supply.

In most districts copper is a perfectly satisfactory material, but there is some danger

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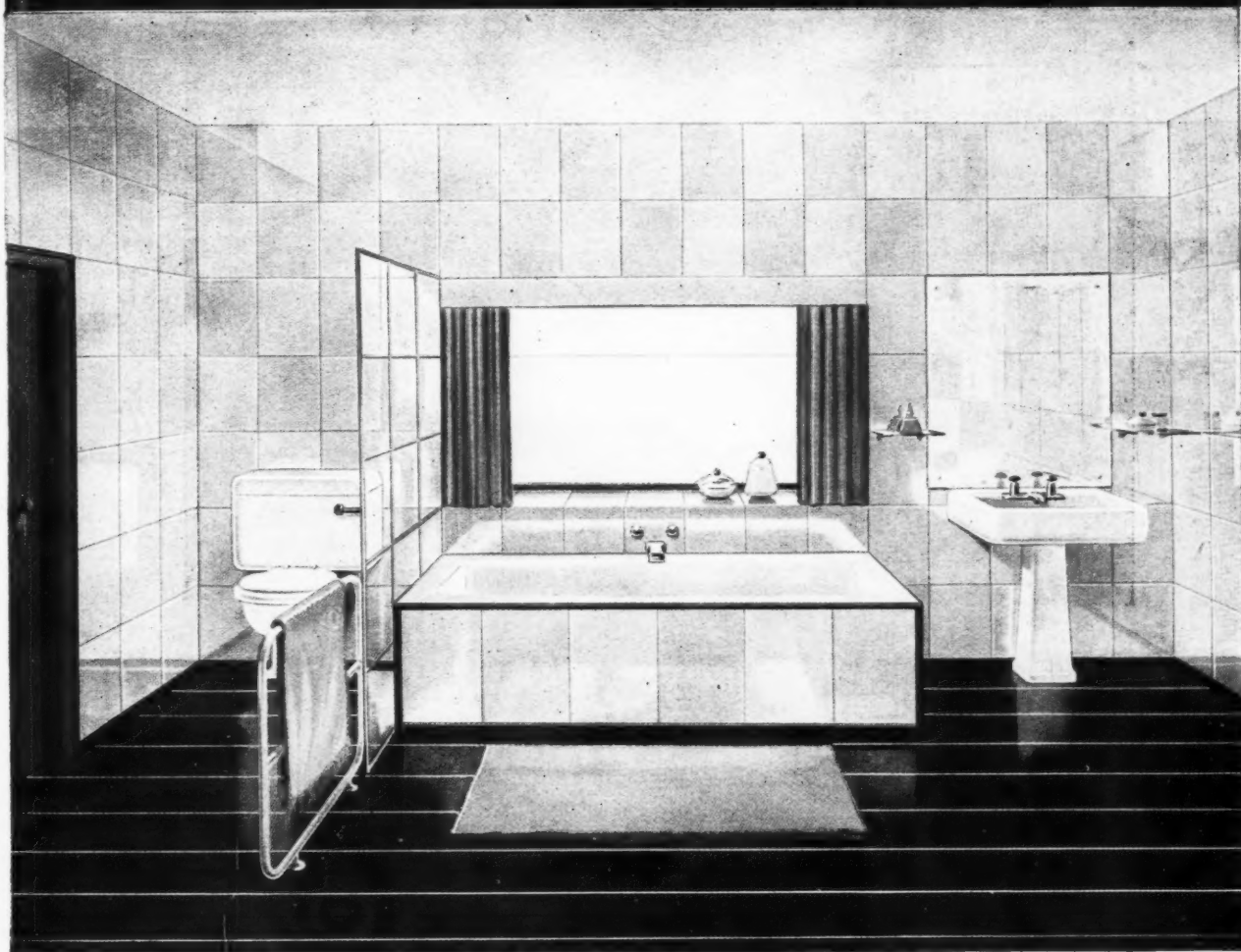
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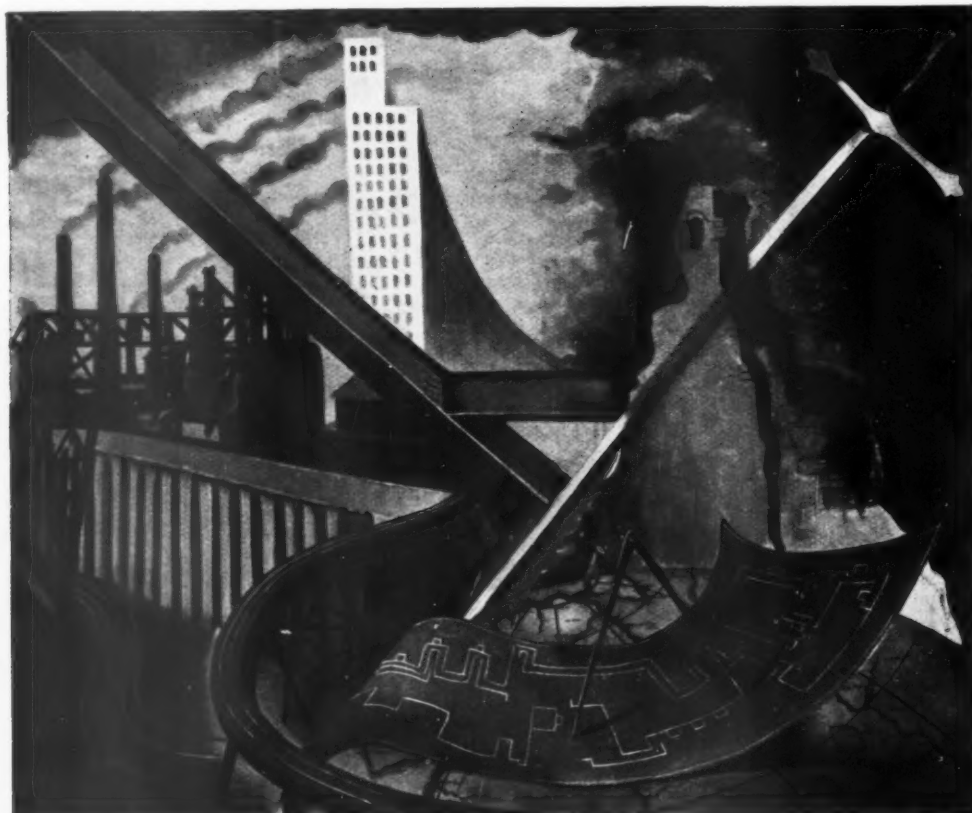
The production of "Vitrolite" is being gradually restored. Black and white "Vitrolite" are now available, and a range of colours will be back in the late summer or early autumn of 1946.

"Vitrolite" is manufactured by Pilkington Brothers Limited, of St. Helens, Lancashire, whose Technical Department is always available for consultation regarding the properties and uses of glass in building.

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Painting by Doris Zinkeisen

This Present Age . . 4

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unequalled by any other country. It is an achievement and a vindication of our freedom of which the nation should be proud. Flexibility and adaptability have been characteristics in the evolution of our industry and the most up-to-date methods are now being applied to all phases of the organisation to ensure continuity of maximum production. Our future plans rely on the resolve expressed in the Atlantic Charter, "to procure collaboration among all nations in the economic field." We support the natural desires for further reforms in our social conditions, but the economic state of our business must be one means to attain these ends.



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of corrosion if it is used in conjunction with galvanized tanks or iron pipes.

Before the war the Copper Development Association was prepared to arrange for a water analysis to be carried out by an in-

dependent investigator free of charge. We do not know whether this service is still operating, but we suggest that you should write to the Copper Development Association at Kendal's Hall, Radlett, Herts.

£28 8s. 6d., the stainless-steel unit costing about £8 more.

SPECULUM PLATING

The Tin Research Institute has recently developed a process whereby speculum metal can be used for electro-plating. Speculum was the name given to the tin-rich bronzes from which mirrors were cast in Roman times and which was later used for the reflecting mirrors of astronomical telescopes. Unfortunately it is hard and brittle and difficult to work, but it is now possible to plate it directly on steel, nickel silver, copper, bronze, brass and various other metals. In appearance it is difficult to distinguish from ordinary well-polished silver, being less blue than chromium and less yellow than nickel. The chief argument in its favour is that it retains its lustre for several weeks and can be cleaned by washing and a rub with a soft cloth. While it is not as hard as chromium, it has a high abrasion resistance and is not easily scratched in use.

As a finish for tableware and cutlery of all kinds, or for plumbing fittings and kitchen utensils, this process seems to have great possibilities, particularly as coatings as thin as 0.0005 in. are claimed to give excellent protection. The process involves no particular difficulties and can be carried out by any plating firm under licence from the Pyrene Co., Metal Finishing Division, Great West Road, Brentford, Middlesex.

STANDARD PRODUCTS FOR HOUSING

Since the use of standard products is to all intents and purposes compulsory in all housing work, it is convenient to be able to see many of them at the exhibition now running at the Princes Galleries in Piccadilly. It should be realised that, while all the exhibits conform to the appropriate B.S.S. the products of various manufacturers may differ in all except the essential requirements laid down by the standard. An effort has been made, however, to choose products typical of the bulk of those made to each specification.

It is perhaps worth adding that all the relevant standards can be consulted at the exhibition, and H.M. Stationery Office has on sale all the Government publications on housing and allied subjects.

It is now nearly seven years since the Journal's pre-war feature of weekly Trade Notes was abandoned for lack of material. During this time there have been major developments in technique, and the old established firms have learnt the new methods of other industries. Builders who never ventured further than wheelbarrow and hired lorry have been moving mountains with bulldozers and drag line excavators: water heater makers have been turning out aircraft gun turrets, window and furniture firms have been making motor torpedo boats, school fitters have turned out Mosquito wings and fuselages: the big contractors have been a-Mulberrying with floating docks, barges and all manner of unfamiliar work involving new ideas and unaccustomed skills. The change over to the reconstruction programme involves a further revolution while the established firms revert to their peace time activities, but at the same time a number of other firms whose potential output has been vastly increased by war are making efforts to join an industry which should have plenty of work for many years to come. It is the duty of the Journal to record not only the marketing of new designs and the reappearance of familiar products, but also the general trend of developments within the industry. Our pre-war Notes are therefore being resumed under a new title which will allow them to cover this rather wider scope. Manufacturers who have new designs in hand or any other news be of interest to architects are invited to send full information to the Editor.

THE INDUSTRY

[by Philip Scholberg]

KITCHEN EQUIPMENT

Last month I suggested that there would be quite a number of newcomers to the building industry, and I have since discovered that Samuel White, of Cowes, are making steel kitchen cabinets. This firm has been building small sailing ships for generations, and in the eighteenth century every successful smuggler had a White-built ship, since they were faster than the Revenue cutters of the time. The Admiralty, therefore, adopted the logical course of buying their own ships from Whites, and since that time the firm has been building fast craft for the Navy, including large destroyers. It is interesting to note that Whites still have in their files the drawings for the *Ponty's* launch, in which Bligh made his forty-one day voyage from the Friendly Islands to Timor after the mutiny.

Accustomed then to working in steel, and having been one of the first to develop welding for shipbuilding, it is perfectly logical for Whites to be making kitchen cabinets, and very encouraging, from our point of view, to find that they have been enlightened enough to retain an architect (Mr. H. Vicars Lobb) to advise them about design. The result can be seen in the illustration on this page. Dimensions are, as one might expect, to British Standard Specification, and the stove enamel finish is easy to keep clean and should last quite well. Although the corner fittings do not appear in the B.S.S. they are a perfectly logical solution to the problem of the awkward space which is normally very inaccessible. The floor units have circular shelves which rotate on a vertical spindle, and the corner unit of the wall cupboards have a splayed front, although this is not easy to see in the photograph. Since the wall units are only 12 inches deep as against the 20 inches of the floor units, this splay gives quite reasonable accessibility.

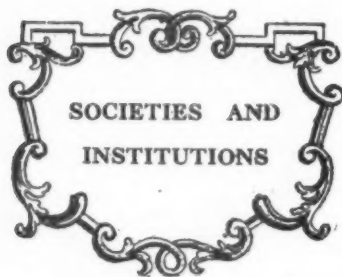
The cupboards are made from heavy-gauge sheet and are latched with press

buttons in the handles instead of the more usual ball catch, thus avoiding the noisy slamming from which metal cupboards generally suffer. The doors are also reinforced by an internal or ribbed stiffening sheet.

Production is now well under way in spite of material shortages, and prices have been fixed: double floor units are £12 2s. 6d. and the corresponding double wall unit is £8 11s. The 63-in. wide aluminium sink unit with double draining board is



A Kitchen Cabinet by Samuel White. The floor units have circular shelves which rotate on a vertical spindle, and the corner unit of the wall cupboards has a splayed front.



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.

TPI

Lewis Mumford

June 20. At Livingstone Hall, Broadway, Westminster, S.W.1. Address by Lewis Mumford, the American author, planner, and sociologist. Chairman: Thomas Sharp, the President.

Lewis Mumford: I have followed during the past six years with increasing amazement the bold and challenging work in planning done by members of the Town Planning Institute. If I were to mention the names of those members who have done this work they would doubtless blush, but perhaps the one who would blush most is one of whom I have been publicly critical, Sir Patrick Abercrombie, because he stands out as one of the great lights in planning in America to-day. I hesitate, therefore, to open this talk, but you have placed the burden upon me.

You have a great advantage in England in having suffered devastation in such a form that you can recognise it. Devastation went on in the 19th century; you were suffering every moment but you were not conscious that the devastation had actually spread over the land. Then the sinister forces against England during the war opened up and piled horror upon horror—and with that came your opportunity. You have had, as perhaps no other country has had previously, an opportunity which has arisen out of the ruin of your cities.

Yet this opportunity also brings a danger. It is very obvious that almost anything you can do by the way of town planning and housing and civic reconstruction will be accepted. No matter how inadequate your planning will be, anything you do will pass and will be all too easily accepted. That is a terrible danger.

There is another danger, connected with housing. It is very possible you will be more considerate of Whitehall and the borough councils than of the people you are going to house, whose lives you are going to deter-

mine for generations to come. There will be economies. You will be tempted to make economies which the author of *Cranford* called elegant economies. You may tend to forget that somebody is going to live in those houses, somebody is going to beget children in the places you are going to build there, somebody is going to die there and may not be even able to die with dignity unless you build things in a suitable way.

There is also the danger of wholesale solutions. The greatest danger arises from good solutions applied wholesale. I am a great admirer of the late Sir Raymond Unwin, and I know what a magnificent job he did, particularly his work in connection with the provision of open spaces in your towns. And yet I feel that his good solution (and I am on the side of open planning, a little more perhaps, than your distinguished President) on general principles, of 12 houses to the acre, was a little too automatically applied. It denotes lack of imagination to say there is only one way of doing it. It implies that houses will always be so, streets will always be so and in the attempt to change black England to green England which this type of planning produces there is a lack of experiment. I think there are times when we can have 20 houses to the acre—and even a little higher.

There has been a neglect of other possibilities, of green common and green belts within the neighbourhoods within green belts and even green belts around blocks. There has even been neglect of planning of allotment gardens. I know it is a good thing to have the allotment close to your house. But why should not these allotment gardens run through the towns, why should they not be part of the residential green area? I think there is a tendency in applying these wholesale solutions, of doing only the adequate thing and not the just thing.

The other difficulty I see is that town planning does seek first of all to correct obvious faults, like the absence of sanitation, the lack of paved streets. I have used some of those as illustrations in my books because they are so profoundly terrible. A good deal of your planning has been the correcting of palpable faults, of making possible the circulation of traffic more freely, but in correcting faults one may sometimes find you have made no positive contribution. The fault controls you, you never get beyond the fault, it has limited your desire.

Even when dealing with fresh areas you tend to approach the matter with a stereotyped solution which you use as if you had to correct a fault. Have the improvements we have made during the last 100 years actually improved? That is your most important question at this moment. What do we mean by improvements in terms of the development of cities? Is it enough to have places sanitary, safe and hygienic? Is it enough that people do not tread on each other's toes? What kind of life are you creating? When one looks at the actual statistics of population in all the so-called advanced countries and one notes that there is a falling reproductive rate, one may feel that life may be awfully good there but it does not seem to be good for babies or for even maintaining our population at a state of safety. The flood of children that happened in the 19th century had to be limited in the interest of the rate. But the world does not want to see England pass away. Whatever doubts we had in 1940 there is no doubt that there is something good here. We do not want the disappearance of "this happy isle." The question of the reproductive rate is important and it involves town planners just as it involves people in medicine and public health.

I put it to you as a fundamental thought in relation to the design of towns, that you begin by trying to follow the baby in his perambulator out of the door to the place where his mother has to do her daily marketing and back to the place you may never provide, the place where she is going to

meet her friends. Unless you have provided an environment in which sociability will be part of the mother's life the baby will not grow up happily and the temptation to have another baby may not occur to the young wife. Follow the baby in the pram. The baby must have some attention paid to its environment. The baby needs a secure playing space. Unless your neighbourhood is so placed as to give him this space the baby is not well started in life. The question you must ask yourself when you have made your plan and it looks good from the graphical standpoint is, how does it begin to look when you follow the fundamental unit in the pram? You have to settle the answer in physical terms for every step of the individual's grope and the group's needs. Man is not naturally a political animal. He requires training and discipline in political life. He requires certain utilities in order to live easily with his kind.

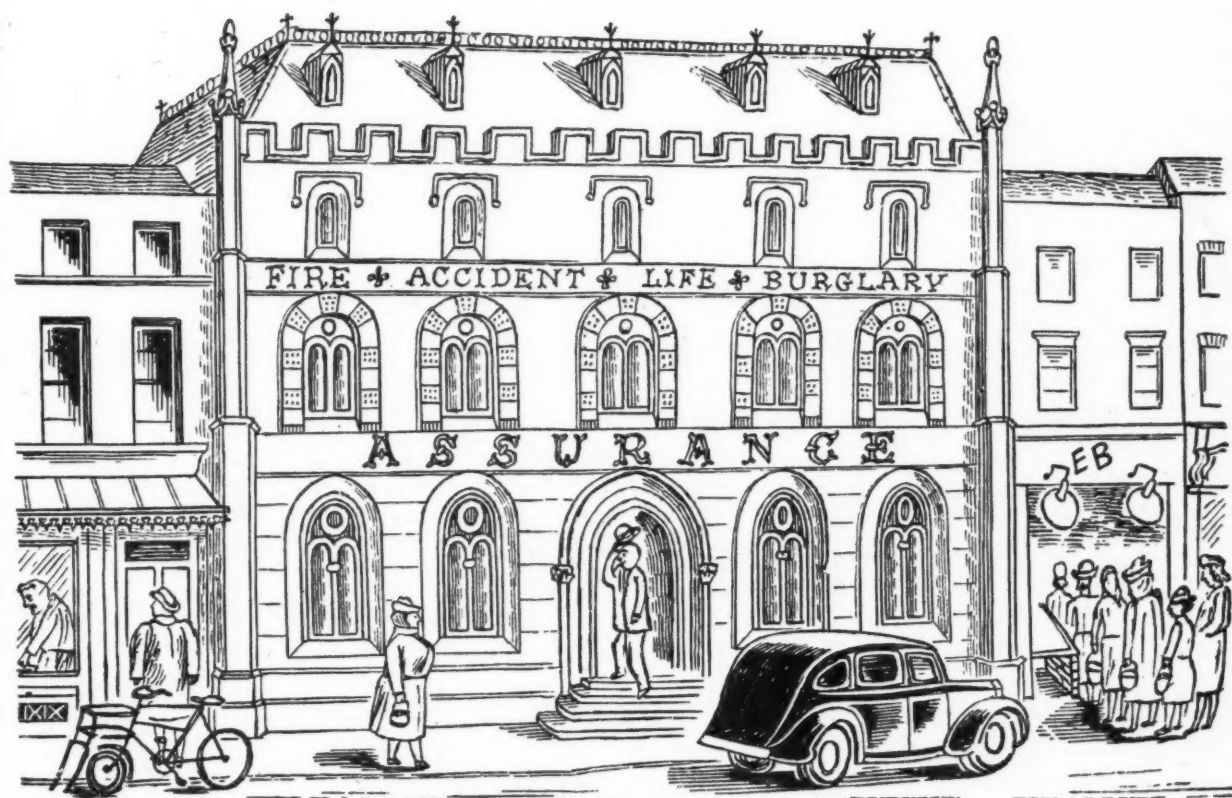
One has also to provide for elements of withdrawal from one's neighbours. It is not enough to mass people together so that they cannot get away from each other. You must see that they sometimes have the opportunity of obtaining seclusion. That was one of the problems which comes about when you are thinking in terms of human beings. How best to satisfy these human needs? I think one has to take the elementary unit. I think it is important that we should conceive our town planning in terms of the fundamental unit, the unit that is going to be the unit of the plan throughout. That fundamental unit seems to be the neighbourhood unit based on the families, gardens, schools, shops and workshops. That includes domestic life, contact with Nature, intellectual and mental sustenance (schools, church and other organisations providing for the needs of the spiritual life) and the working life. That brings you to another problem.

We have achieved the notion that zoning of a city's functions is important. But at the same time, in recognizing the principles of zoning we often have the tendency to carry it too far so that we sterilize the district for any functions except the one for which we have zoned it. The result is unnecessary monotony. It is good for little children to see the carpenter at work at his bench without having to go out of their way. The way to plan and avoid muddle and huddle is to have enough space. I would not regard it as an inviolable rule to zone so tightly that you could not interest the family life of the community in the neighbourhood. It might be in the form of a small factory which did not employ many people or make much noise. The neighbourhood could be the city writ small and the city the neighbourhood unit writ large.

I confess I had a great deal of sympathy with the writer of a letter in *The Times* who pointed out that in the new towns there was too much of the tendency to put a large factory away on one side so that the possibility of the employees going home to lunch was denied to them. It is important that the father should have a reunion with his children in the middle of the day. One of the wisest things the French have retained is the two-hour break in the middle of the day. It allows a man to go home and kiss his wife and pat his children on the head.

Some industrial units should be segregated half-a-mile or a mile from the main centre of the town but I would urge in the interests of the life that the people are going to lead that this matter should be reconsidered, particularly in the London area. London is a unique city of small industries and small factories and workshops. If you decentralize London you may find you will have to think of decentralizing some of the workshops. It seems to me that in the neighbourhood unit, rightly considered, you have the possibility of keeping the balance of the plan which leads to the balance of the actual social and personal lives of the people who utilise the neighbourhood and this balanced unit is never self-contained, is

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'Office', at the moment, can mean anything or nothing. Some supposedly efficient and up-to-date firms bury themselves in buildings that look as if they were designed for decaying charitable organizations, senile Dickensian solicitors or third-rate theatrical agencies. Others take great pains to convert to their uses blocks of flats or private houses in which many families could be happy

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I can sum it up thus: Follow the baby in the pram, follow him at every important step in his life and be sure your plan is an answer to his needs at every step in his life. There must be plenty of space for his courtship and that if he wants space for any other important event he will not only find it in the house. If you continue to follow the baby in the perambulator and take part in his life and work, if you try to understand his need for association, for getting together with the people of like mind, and finally when he comes to his death bed, you can feel you are sure he has space to reach his end with dignity—then you have done your job—you have at least begun to be town planners.

Announcements

Messrs. Barron, Rooke & Partners (Mr. E. H. A. Barron, F.F.A.S., Mr. P. W. T. Elford, L.R.I.B.A., Mr. R. J. Evans, F.I.A.S., L.R.I.B.A., and Mr. H. J. Sloggett, L.R.I.B.A.), announce the retirement of Mr. E. H. A. Barron from the Partnership existing between them since January 1, 1938. The remaining partners will continue the practice as hitherto under the title of Messrs. Elford, Evans & Sloggett, Chartered Architects

(successors to Messrs. Barron, Rooke & Partners) at their present address at 17, Grimstone Terrace, Houndiscombe Road, Plymouth.

Mr. H. Irving Graham, Chartered Architect, has taken into partnership Major A. C. Roy, R.E., A.R.I.B.A., who has recently been released from the services. The name of the firm will be known as Graham & Roy, and the practice will be continued at the present address, 6, Paternoster Row, Carlisle.

Mr. E. Berry Webber, A.R.I.B.A., will be pleased to receive up-to-date trade catalogues and information sheets at 39, Gordon Square, W.C.1.

A small section of the London premises of Electrolux, Ltd., has been derequisitioned by the Government and the Managing Director, the Sales and Publicity Departments have returned to 153-5, Regent Street, W.1. The factory at Luton has now switched from war production to the manufacture of the firm's refrigerators and suction cleaners.

F/O L. A. A. Blomfield, 69, Lansdowne Avenue, Leigh-on-Sea, Essex, would like to receive manufacturers' catalogues, etc.

Mr. Clive Pascall, A.R.I.B.A., has changed his address to: 22, Great James Street, W.C.1. (Telephone: Holborn 6141), where he will be pleased to receive trade catalogues.

Mr. H. Cyril David has been released by the Board of Trade from his position of Deputy Timber Controller (Overseas Supplies) and will be succeeded by Mr. T. Lamas Lees. Mr. David will continue to act in an advisory capacity to the Timber Controller on international timber matters.

The Ardor Insulation Co., Ltd., are building a new factory for their expanding insulation business. Architects' inquiries to the firm should be addressed to the London Sales Office:—Carlisle House, 8, Southampton Row, London, W.C.1. Telephone No. Holborn 6001.

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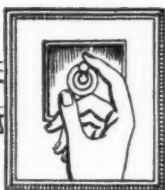


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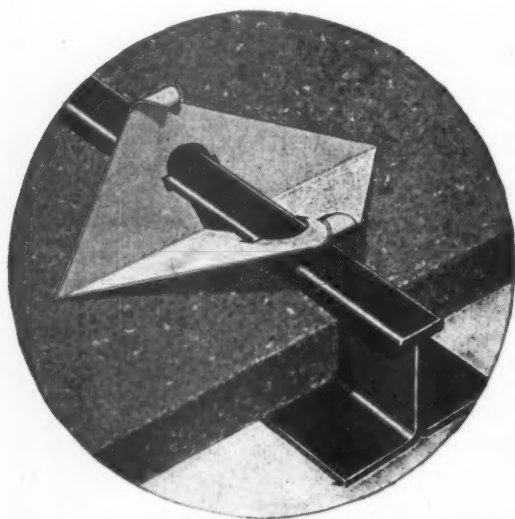
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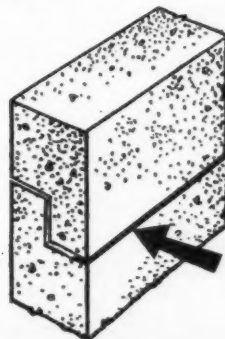
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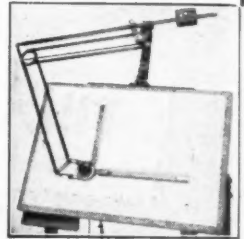
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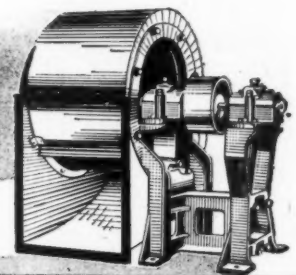
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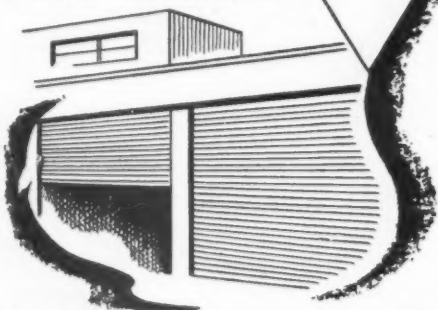
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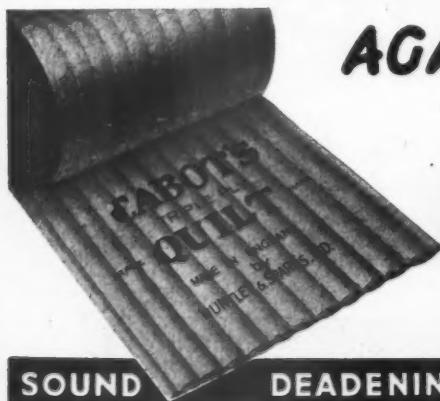
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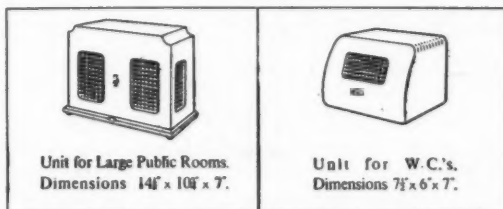
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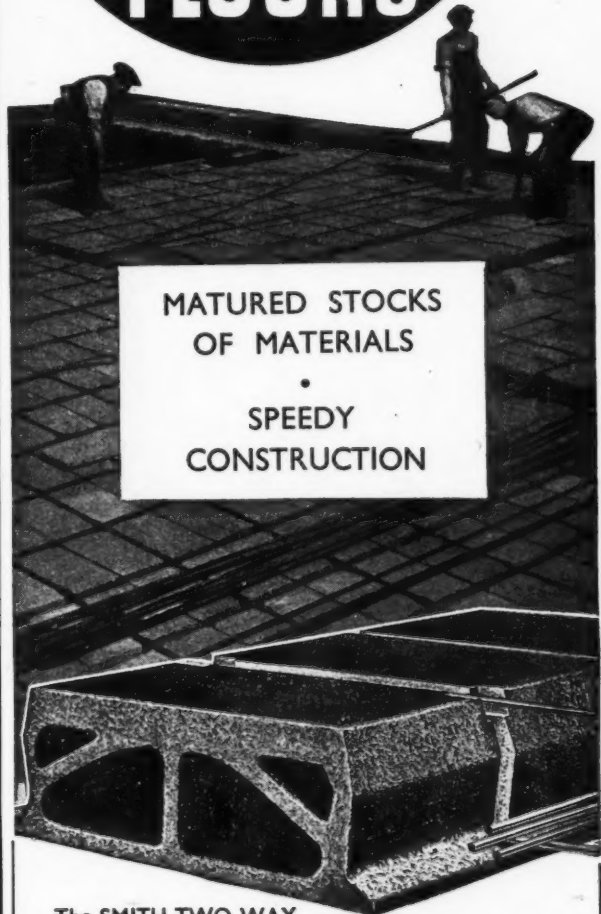
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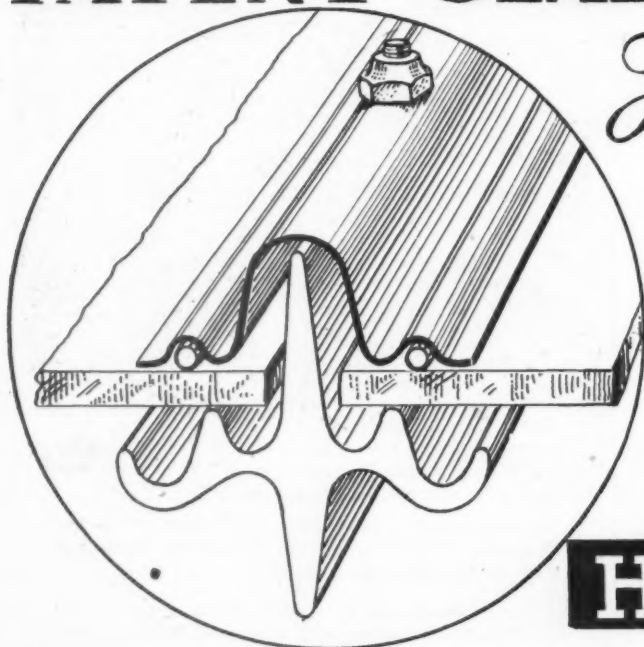
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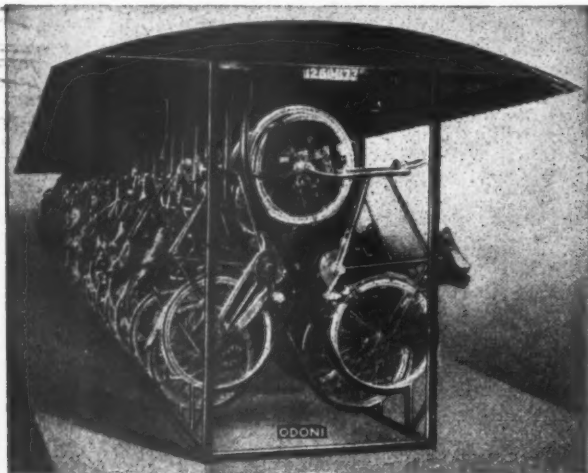
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CLASSIFIED ADVERTISEMENTS

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.

Public and Official Announcements

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

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

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 works under schedule of prices (experience of London County Council War Department or Office of Works Schedules).

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

(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 55s. 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 £90 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.

Canvassing disqualifies. 947

R.I.B.A. ARCHITECTURAL SCIENCE BOARD AND JOURNAL.

Applications are invited for the post of Secretary to the Architectural Science Board and Technical Assistant Editor to the Journal. Preference given to a member of the R.I.B.A. with some scientific background and literary ability. Duties, which would be whole time, would be to manage the work of the Board and of its Committees and to prepare material for the technical and scientific sections of the Journal. Commencing salary £600 per annum. Apply in writing to the Secretary, R.I.B.A., before 22nd July, 1946. 900

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANTS.

TERMS AND CONDITIONS OF APPOINTMENT.

Applications are invited from qualified persons for the temporary appointments of two Architectural Assistants (Grade C) in the Borough Engineer and Surveyor's Department.

Candidates must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification, and have general knowledge and experience of architectural work in the service of a local authority.

The salary will be in accordance with Grade C of the Council's Grading Scheme for official staff, i.e., £420 per annum rising to annual increments of £15 to a maximum of £465 per annum, plus war bonus at present £59 16s. per annum, but the commencing salary may be increased according to the qualifications and experience of the persons appointed. The Council propose to apply the National Salary Scales, and the salary for these posts will be subject to revision in the near future.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for temporary official staff in force from time to time, and the successful candidates will be required to pass a medical examination.

Applications on the form provided, must be delivered as soon as possible to the undersigned, together with copies of three recent testimonials, and endorsed "Architectural Assistant."

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.6.
14th June, 1946. 920

HERIOT-WATT COLLEGE, EDINBURGH.

Applications are invited from British subjects for the post of Lecturer in Building. Qualifications and teaching experience in general building subjects including Building Science and in Structural Steel and Reinforced Concrete are essential. Salary Scale for Lecturers Grade I £450-£15-£685, Grade II £400-£15-£595. Placing will be given according to qualifications and experience. Further particulars and application form may be obtained from the Principal with whom applications must be submitted not later than 31st July.

J. CAMERON SMAIL,

Principal.

912

BOROUGH OF CHESTERFIELD.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for a Senior Architectural Assistant in the Architectural Section of the Borough Engineer's Department. Candidates must hold recognised architectural qualifications, be able to prepare Bills of Quantities, and preference will be given to those having municipal experience.

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

Commencing salary £450, rising by £25 per annum (subject to satisfactory service) to a maximum of £500, plus cost of living bonus.

Applications, endorsed "Senior Architectural Assistant," stating age and full details of qualifications, and experience, accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than July 15th, 1946.

RICHARD CLEGG,

Town Clerk.

Town Hall, Chesterfield.
15th June, 1946. 928

COUNTY BOROUGH OF EASTBOURNE.

APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the above post in the Borough Engineer's Department, at a salary of £625 per annum, rising by three increments of £25, to £700, plus cost-of-living bonus, at present amounting to £59 16s. per annum.

Applicants should be Associates of the Royal Institute of British Architects, and should have had considerable experience in the design and construction, both by contract and by direct labour, of the normal type of buildings erected by Local Authorities.

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

Applications, endorsed "Deputy Borough Architect," accompanied by three recent testimonials, should be forwarded to the undersigned so as to reach him not later than Monday, 15th July, 1946.

RAYMOND WILLIAMS,

Borough Engineer.

"Bishopsoverne," Carlisle Road, Eastbourne. 943

BERKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments on the permanent staff:—

(a) CHIEF QUANTITY SURVEYOR at a salary of £555 rising by two annual increments of £20 and one of £25 to a maximum of £600 per annum plus bonus.

(b) ASSISTANT QUANTITY SURVEYOR at a salary of £460 per annum rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum plus bonus.

(c) ENGINEERING ASSISTANT at a salary of £460 per annum rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum plus bonus.

(d) TWO ASSISTANT ARCHITECTS at a salary of £390 per annum rising by three annual increments of £15 to a maximum of £435 per annum plus bonus.

The above grades are on the National Scale of Salaries and the cost of living bonus is at present £59 16s. per annum.

Candidates for appointments (a) and (b) should be members of the Surveyors' Institution (Quantities Section) and should have had wide experience in preparing approximate estimates and Bills of Quantities, adjustments of accounts, etc. Previous experience with a Local Government Authority will be an advantage with regard to appointment (a).

Candidates for appointment (c) should be members of the Institution of Heating and Ventilating Engineers and should have had wide experience in design and supervision of heating, hot water supply, electrical and general mechanical installations.

Candidates for appointments (d) should be chartered and registered Architects and should have had considerable experience of preparing working drawings and be able to take charge of contracts.

All the appointments will be subject to the Local Government Superannuation Act, to one month's notice on either side, to the successful candidates passing a medical examination, and to the Council's General Conditions of Service for Administrative, Professional, Technical and Clerical Staff for the time being in force.

Application forms can be obtained on receipt of a stamped addressed envelope from the County Architect, 10, Abbots Walk, Reading, to whom they should be returned completed, together with copies of three recent testimonials, on or before Tuesday, 6th August, 1946.

Candidates serving with H.M. Forces abroad need not complete the official form of application but may submit direct application to the County Architect within the time specified, giving particulars of age, education, qualifications, experience, number of release group, date of probable release, and three names of references.

The possession of a car is not essential but would be an advantage.

Canvassing directly or indirectly will be a disqualification.

H. J. C. NEOBARD,

Clerk of the Council.

Shire Hall, Reading. 938

POPLAR BOROUGH COUNCIL.

APPOINTMENT OF PRINCIPAL ASSISTANT ARCHITECT.

Applications are invited for the permanent position of Principal Assistant Architect to the Poplar Borough Council.

A large area of Poplar is situated in the proposed Slepney and Poplar Reconstruction Area, and extensive schemes of reconstruction are in hand and envisaged for the future. The position calls for sound technical and administrative ability and offers a good opportunity for experience in planning and architectural work with plenty of scope for originality and initiative.

Candidates should be Associates of the Royal Institute of British Architects and experience in the carrying out of building work by direct labour would be an advantage. The successful candidate would be required to devote his whole time to the service of the Council.

The salary will be in accordance with Grade VIII (A.P.T. Division) of the National Scale of Salaries, i.e., £645 rising to £720 per annum, plus War Bonus at present amounting to £59 16s. per annum, but may be subject to review at a later date.

The appointment will be subject to the provisions of the Poplar Borough Council Superannuation Acts, 1911 to 1937, and the successful candidate will be required to pass a medical examination. Termination of the appointment will be subject to one month's notice on either side.

Applications, endorsed "Principal Assistant Architect," stating age, qualifications, and present and past employment, and accompanied by copies of three recent testimonials, must be delivered to the Town Clerk, at the Poplar Town Hall, Bow Road, London, E.3, not later than 9 a.m. on 20th July, 1946.

Canvassing members or officers of the Council in any form will disqualify.

S. A. HAMILTON,

Town Clerk.

Poplar Town Hall.

Bow Road, E.3.

June, 1946. 936

PEMBROKESHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.

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

TWO ASSISTANT ARCHITECTS. Salary £350, rising by annual increments of £25 to £400, plus cost-of-living bonus. Applicants should be Registered Architects and membership of the Royal Institute of British Architects will be an advantage, as well as experience in educational building work.

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

Applications, stating age, experience and qualifications, with particulars of past and present appointments, and accompanied by copies of two recent testimonials, must be received by me not later than 27th July, 1946.

Canvassing will disqualify.

W. E. BUFTON,

Clerk of the County Council.

County Offices, Haverfordwest. 983
26th June, 1946.

**URBAN DISTRICT COUNCIL OF GAINS-
BOROUGH.**

ARCHITECTURAL ASSISTANT.

The Council invite applications for the above appointment, in the Department of the Engineer and Surveyor.

Candidates must hold a recognized Architectural qualification, and engineering experience will be considered an advantage.

Salary scale (basis), £390 per annum, rising subject to satisfactory service, by £15 per annum to £435, plus cost-of-living bonus, at present amounting to £59 16s. per annum, the commencing basic salary to be fixed according to the qualifications and experience of the successful applicant. The Council have adopted the National Scheme of Conditions of Service.

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

Applications, stating age, qualifications, and full details of experience, together with all other essential information, and accompanied by copies of not more than three recent testimonials, should be delivered to the undersigned not later than Tuesday, 23rd July, 1946.

Canvassing, directly or indirectly, will be a disqualification.

ERIC R. MORGAN,

Clerk of the Council.

Council Offices, Lord Street, Gainsborough. 986
June, 1946.

COUNTY BOROUGH OF CROYDON.

**ARCHITECTURAL DIVISION, THE BOROUGH
ENGINEER'S DEPARTMENT.**

Applications are invited from qualified persons for the undermentioned posts on the established staff. The persons appointed will carry out their duties under the direction of the Principal Assistant Architect.

Applicants must have had a good general knowledge of the architectural work undertaken by a local authority (excluding schools), housing experience essential:—

TWO—GENERAL ARCHITECTURAL ASSISTANTS (Grade IV). £440-£485.
ONE ARCHITECTURAL ASSISTANT (Grade II). £330-£425.

Plus war bonus in each case (at present £59 16s. per annum).

If the successful candidate is unable to obtain reasonable living accommodation the Corporation will endeavour to assist him.

Form of application may be obtained from the Borough Engineer, Town Hall, Croydon, and should be returned to me not later than 6th July, 1946.

E. TABERNER,

Town Clerk.

984

ST. PANCRAS BOROUGH COUNCIL.

**APPOINTMENT OF TEMPORARY BUILDING
AND SURVEYING ASSISTANT.**

Applications are invited for the above temporary appointment in the Borough Engineer and Surveyor's Department.

Duties will include the preparation of measured builders' work, pricing and estimating and preparation of specifications for purchase of materials, plant and stores in connection with the Council's direct labour building organization. Salary between eight guineas and ten guineas per week (plus consolidated addition of £1 14s. 7d. per week), according to qualifications and experience.

Applicants should state age, qualifications, details of training and experience, and are to submit not more than three recent testimonials. Applications should reach the undersigned not later than 12th July, 1946.

R. C. E. AUSTIN,

Town Clerk.

Town Hall, Euston Road, N.W.1. 985

COUNTY BOROUGH OF NORTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.

**APPOINTMENT OF PRINCIPAL ASSISTANT
ARCHITECT.**

Applications are invited for the appointment of a Principal Assistant Architect (Architecture), in the Department of the Borough Architect and Town Planning Officer, in the salary scale £575×£25 to £650 p.a., plus bonus £60 p.a.

Applicants should be members of the Royal Institute of British Architects, and have had considerable experience in the design of Educational Buildings and Housing.

Further particulars of the appointment and form of application may be obtained from the undersigned, to whom applications must be delivered not later than 20th July, 1946.

C. E. VIVIAN ROWE,

Town Clerk.

Guildhall, Northampton. 988

LEEDS COLLEGE OF ART.
Principal: E. E. FULLER, A.R.C.A.

Applications are invited for the undermentioned posts in the Leeds School of Architecture. Candidates should preferably have been trained in a recognised school of architecture and be Associates of the R.I.B.A.

(1) Full-time **LECTURER** and **STUDIO INSTRUCTOR**, in Architectural Design and Construction. Special qualifications in Advanced Building Construction, Steel and Reinforced Concrete and/or Acoustics will be an additional recommendation.

(2) **LECTURERS** and **STUDIO INSTRUCTORS** in Architecture. Four positions are vacant, and candidates will be required to lecture in subjects to be arranged and to instruct in the Studios.

Salary in accordance with the Burnham salary scales, with allowance for professional experience.

Application forms, which should be returned as soon as possible, may be obtained by sending stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1. 992

BOROUGH OF TORQUAY.

**APPOINTMENT OF CHIEF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the post of CHIEF ARCHITECTURAL ASSISTANT, in the Borough Surveyor's Department, at a salary of £575 per annum, rising by three annual increments of £25 to £650 per annum, plus cost-of-living bonus, which is at present 25s. per week.

Applicants must be Registered Architects, and preference will be given to Associate Members of the R.I.B.A. Previous municipal experience, particularly on housing work, is desirable.

The applicant recommended for the appointment will be required to pass a medical examination, and if appointed to contribute to the Council's Superannuation Scheme.

Applications, stating age, qualifications, experience, present and past appointments, together with copies of not more than three recent testimonials, should be delivered to the Borough Surveyor, Town Hall, Torquay, not later than 24th July, 1946.

HERBERT A. FIELD,

Town Clerk.

Town Hall, Torquay. 991
27th June, 1946.

COUNTY BOROUGH OF EAST HAM.

**APPOINTMENT OF TEMPORARY JUNIOR
TOWN PLANNING ASSISTANT.**

Applications are invited for the temporary appointment of a Junior Town Planning Assistant (Grade I), in the Borough Engineer and Surveyor's Department.

Candidates must be competent draughtsmen and have general knowledge and experience of town planning work. Preference will be given to those with experience in the service of a local authority.

The salary will be in accordance with Grade 1 of the National Salary Scale, i.e., £330 per annum, rising by annual increments of £15 to a maximum of £375 per annum, plus London allowance (£20 p.a.) and war bonus, at present £59 16s. per annum, but the commencing salary may be increased according to the qualifications and experience of the person appointed.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for temporary official staff in force from time to time, and the successful candidates will be required to pass a medical examination.

Applications on the form provided must be delivered to the undersigned, together with copies of three recent testimonials, and endorsed "Town Planning Assistant," not later than Monday, 29th July, 1946.

Canvassing in any form will disqualify.

(Sgd.) **H. A. EDWARDS,**

Town Clerk.

Town Hall, East Ham, E.6. 942
26th June, 1946.

WORSLEY URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the appointment of an Assistant Architect, in the Engineer and Surveyor's Department, at a commencing salary in accordance with Grade V of the National Salary Scale, £460 per annum, rising, subject to satisfactory service, to £510 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should hold an appropriate professional examination, and must have had wide experience in Architectural design and construction, especially the layout of large housing estates.

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

Applications, stating age, qualifications, present and past appointments, and full details of experience, together with copies of three recent testimonials, must be sent to the undersigned not later than Saturday, the 20th July, 1946, and endorsed "Assistant Architect."

HAROLD LOMAX,

Clerk of the Council.

Town Hall, Walkden, near Manchester. 971
21st June, 1946.

GOVERNMENT OF NORTHERN IRELAND.

ASSISTANT ARCHITECT.

Applications are invited for posts of Assistant Architect in the Ministry of Finance. The appointment will be temporary, but so far as can be foreseen will last for several years.

Remuneration: The salary will be within the range £350-£550 per annum, and the commencing salary within this range will be fixed in each case according to the qualifications and experience of the successful candidate. In addition, war bonus varying between £78 at the minimum and £90 at the maximum of the range is at present payable.

Qualifications: Candidates must have passed the Final (Associateship) Examination of the Royal Institute of British Architects, or possess equivalent qualifications.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 war, provided the Ministry is satisfied that such candidates can, or within a reasonable time be able to discharge the duties of the post efficiently.

Closing date for receipt of applications: Applications must reach the Assistant Secretary (Establishments), Ministry of Finance, Stormont, Belfast, on or before the 19th July, 1946. Applicants should state date of birth, give full particulars of qualifications and experience, and enclose copies of two recent testimonials. 976

COUNTY BOROUGH OF GATESHEAD.

County Borough of Gateshead, Borough Engineer's Department. Applications are invited for the following appointments:—

(1) **THREE QUANTITY SURVEYORS.** Preference will be given to applicants who have passed the Final Examination of the Surveyors' Institute, and should be capable of taking off, abstracting, billing of quantities, the adjustment and settlement of builders' accounts.

The salary will be in accordance with the A.P. and T. Division of the National Scale of Salaries (for qualified assistants over 25, £460-£510, plus cost-of-living bonus).

(2) **TWO JUNIOR ARCHITECTURAL ASSISTANTS,** who must be good draughtsmen, have a knowledge of building construction and some experience in design. Preference will be given to Students of the Royal Institute of British Architects. The salary in this case will be Grade 1 of the A.P. and T. Division of the National Scales (£330-£375), plus cost-of-living bonus.

(3) **ONE CLERK OF WORKS,** who should have previously served in a similar capacity, and should have a sound knowledge of the building trade in all its branches and should be capable of preparing schedules of materials required and in the supervision of work by direct labour.

Salary will be in accordance with A.P. and T. Division of the National Scales (£390-£435), plus cost-of-living bonus.

(4) **MALE CLERK,** with building trade experience. Applicants should have been trained in a builder's office and should be fully conversant with preparation of schedules of materials, checking accounts, and should be capable of assisting the quantity surveyors in preparation of estimates.

Salary will be in accordance with the Miscellaneous Division, Grade 1 of the National Scales (£255-£300), plus cost-of-living bonus.

The appointments will in the first place be temporary, but the persons appointed will be required to pass a medical examination, and if appointed to permanent positions to contribute to the Local Government and Other Officers' Superannuation Fund.

Applications on the prescribed form, which can be obtained from F. H. Patterson, Esq., M.I.M. & C.V.E., Borough Engineer, Municipal Buildings, Swinburn Street, Gateshead, must be received by him not later than Monday, 15th July, 1946.

J. W. PORTER,

Town Clerk.

22nd June, 1946. 995

HUNTINGDONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS AND ASSISTANT CLERK OF WORKS.

Applications are invited for the following appointments on the established staff:—

(1) SENIOR ARCHITECTURAL ASSISTANT (Grade IV), at a salary of £420-£415-£465 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

(2) ARCHITECTURAL ASSISTANT (Grade I), at a salary of £330-£315-£375 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

(3) ASSISTANT CLERK OF WORKS, at a salary of £255-£245-£300 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

The persons appointed will be contributory employees under the provisions of the Local Government Superannuation Act, 1937, and will be required to pass a medical examination.

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

Applications for position (3) above should have experience in connection with the maintenance of buildings and preparation of maintenance specifications.

Applications, stating age, qualifications, experience and date and which duties could be commenced if appointed, together with copies of testimonials, should be sent to Mr. T. H. Longstaff, M.Inst.C.E., F.R.I.B.A., County Architect, Walden House, Huntingdon, by not later than Tuesday, 16th July, 1946.

J. B. KELLY,
Clerk of the County Council.
Gazeley House, Huntingdon.
4th July, 1946. 979

ROBERT GORDON'S TECHNICAL COLLEGE, ABERDEEN.

SCHOOL OF ARCHITECTURE AND DEPARTMENT OF BUILDING.

Head: E. F. DAVIES, B.Arch.(Lvl.), F.R.I.B.A., F.R.I.A.S.

LECTURER AND STUDIO INSTRUCTOR.

Applications are invited for the post of Full-time Lecturer and Studio Instructor in Architectural Design and Construction Subjects. Special qualifications in Architectural Design and Town Planning will be an additional recommendation.

The School is recognized for purposes of exemption from the R.I.B.A. Intermediate and Final Examinations.

Candidates must be Associates of the Royal Institute of British Architects, and should possess a Degree or Diploma of a recognized School of Architects.

Salary: Men, £400 by £15 to £625; women, £330 by £15 to £500. Initial placing according to qualifications and experience.

The successful applicant will normally be expected to take up duty on 1st September, 1946, but consideration will be given to applications received from men who may still be on national service at that date. Applications, accompanied by copies of testimonials and the names of three referees, should be sent to the undersigned not later than August 1st, 1946.

A. C. WEST,
Director. 958

BOROUGH OF WALTHAMSTOW.

BOROUGH ARCHITECT'S DEPARTMENT.

APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the appointment of Planning Assistant in the Borough Architect's Department. Salary £300-£215-£345 per annum, plus war bonus of £59 19s. 3d. per annum. The assimilation of officers to the National Joint Council's scales is under consideration.

Candidates should have had experience of municipal work, and preference will be given to candidates possessing an appropriate Planning Qualification.

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

The appointment will be in accordance with the National Joint Council's 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 "Planning Assistant," not later than Saturday, 13th July, 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.
24th June, 1946. 957

WORTLEY RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of FOUR TECHNICAL ASSISTANTS, in the Department of the Engineer and Surveyor.

The persons appointed will be required to carry out duties in connection with the normal activities of the office of a Municipal Engineer and Surveyor, including housing, and applicants should have had previous experience of such work.

The appointments, which are temporary, with a minimum duration of 2 years, will be determinable by one month's notice on either side, and will be subject to the provisions of the Local Government and other Officers' Superannuation Acts.

Successful candidates will be required to pass a medical examination. Applications, stating salary required, should be made on the form prepared for the purpose obtainable from J. Gregory, B.Eng., M.Inst.M.Cy.E., Council Offices, Greenside, Sheffield, and should reach the undersigned in a sealed envelope, suitably endorsed, not later than 22nd July, 1946.

J. MORTON,
Clerk to the Council.
Council Office, Greenside, Sheffield.
June, 1946. 978

LONDON COUNTY COUNCIL.

BRIXTON SCHOOL OF BUILDING, FERNDALE ROAD, S.W.4.

A Panel of LECTURERS and INSTRUCTORS in the subjects indicated below for evening and part-time day classes, to be held in the session commencing September, 1946, is now being prepared. Persons desiring to be registered on the Panel should apply to the Secretary of the School for a form of application (stamped addressed foolscap envelope necessary).

Architectural Design and Drawing, Building Construction, Building Science, Building Geometry, Mathematics, Building and Quantity Surveying, Land Surveying (Theory and Practical), Drainage of Buildings, Sanitary Engineering, Heating and Ventilating, Structural Engineering (Steel and Reinforced Concrete), Builders' Book-Keeping, Estimated and Pricing. Applicants should be engaged in building work, and should be members of the Royal Institute of British Architects, Chartered Surveyors' Institution, Institution of Structural Engineers, Institution of Civil Engineers, Institute of Builders, or have other suitable qualifications.

Carpentry and Joinery, Brickwork, Plumbing, Plastering and Woodcutting Machinists' work. Applicants should hold the City and Guilds of London Institute Final Certificate in one of the trades mentioned, and should be competent to lecture in trade theory and in associated subjects (e.g., Geometry Calculations), as well as teach in workshop classes. Good industrial experience an essential qualification. (1576). 965

EBBW VALE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

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

(a) ARCHITECTURAL ASSISTANT.

(b) QUANTITY SURVEYOR.

Applicants for (a) must be experienced in land surveying, levelling, building inspection, and preparation of plans, working drawings, and specifications for general municipal architectural works, including housing. Applicants must possess an Architectural qualification, and preference will be given to applicants who are Associates of the Royal Institute of British Architects.

Applicants for (b) must be capable of taking off and preparing bills of quantities for architectural and engineering works, and be fully conversant with contract procedure and the existing regulations as to priority and the supply of materials. Applicants must be Professional Associates of the Surveyors' Institution or hold equivalent qualifications.

The salary for each appointment will be in accordance with Grade IV of the Administrative, Professional and Technical Division of the National Scale of Salaries for Local Government Officers, plus cost-of-living bonus (at present £59 16s. per annum).

The National Joint Council's Scheme of Conditions of Service will apply to the appointments. The appointments will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937.

The successful applicant for each post will be required to devote the whole of his time to the duties of the office, and will be precluded from private practice in any form and also will be required to reside in the urban area.

Applications, giving full particulars of age, qualifications, past and present appointments and salaries, and experience, accompanied by copies of three recent testimonials, must be received by the undersigned not later than Saturday, the 20th July, 1946.

R. E. HERBERT,
Clerk of the Council.
District Council Offices, Ebbw Vale, Mon.
20th June, 1946. 962

WEST SUFFOLK COUNTY COUNCIL.

Applications are invited for the appointment of a BUILDINGS' INSPECTOR, in the County Architect's Department, on a salary scale of £330-£215 to £375 per annum, plus cost-of-living bonus (at present £60 per annum); position on scale according to qualifications.

Travelling allowance in accordance with County Scale.

Forms of application may be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than 22nd July, 1946.

L. G. H. MUNSEY,
Clerk of the County Council.
Shire Hall, Bury St. Edmunds.
24th June, 1946. 969

HARROGATE AND DISTRICT REGIONAL PLANNING COMMITTEE.

SENIOR PLANNING ASSISTANT.

Applications are invited for the appointment of Senior Planning Assistant at a salary in accordance with the National Scale of Salaries, A.P.T. Grade IV, commencing at £420, and rising by annual increments of £15 to £465 per annum, plus cost of living bonus.

Applicants should be Associate 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 and/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 "Senior Planning Assistant," and accompanied by copies of not more than three recent testimonials, should be submitted to the undersigned not later than Thursday, the 11th July, 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.
18th June, 1946. 929

Partnerships

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

REGISTERED ARCHITECT, ex-R.E. Officer, age 44, seeks Partnership; preferably in country town; 20 years' varied London experience, including private practice, 1938-1940; small premium available. Box 989.

Architectural Appointments Vacant

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

Wherever possible prospective employers are urged to give in their advertisements full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

SENIOR ASSISTANT required in busy Architect's Office in East Midlands, some knowledge of quantities desirable; permanent position to suitable applicant. Write, stating age, experience and qualifications and salary required, to E. H. C. Inskip & Son, Goldington Road, Bedford. 884

ARCHITECTURAL ASSISTANT wanted in London office of staff Architect to large industrial company; well trained, good draughtsman, able to handle large and small jobs from sketch plans to finish; salary £400 to £500 according to qualifications. Apply Box 909.

WANTED.—good, experienced Architectural Assistant with at least 10 years' experience including service of articles; good designer draughtsman in ink and pencil, with details surveying; quantities helpful; state type of work used to; fine opportunity for good man if suitable; chance of early partnership in country town; state experience with two testimonials, drawings for approval. Box 911.

ARCHITECTURAL ASSISTANTS required at once by Ministry of Works, 122, George Street, Edinburgh, 2. Salary according to age and experience. Applications containing this information to "The Secretary" at the above address. 937

ARCHITECTS.—Senior and Junior Architectural Assistants required, with experience in industrial and commercial buildings; salary in accordance with qualifications and experience. Applications in writing, giving details of experience, etc., should be sent, Labour Department, S.C.W.S., Ltd., 95, Morrison Street, Glasgow, C.5. 949

QUANTITY SURVEYORS.—Senior and Junior Quantity Surveying Assistants wanted, with experience in industrial and commercial buildings; salary in accordance with qualifications and experience. Applications in writing, giving details of experience, etc., should be addressed to S.C.W.S., Ltd., Labour Department, 95, Morrison Street, Glasgow, C.5. 950

QUANTITY SURVEYOR WANTED.

Wanted, by leading construction company operating throughout New Zealand, and with head office situated in Christchurch, New Zealand, fully qualified and competent Quantity Surveyor. Must be quick and accurate at figures, and able to price all classes of general contracting work.

Fares returnable to the successful applicant after six months' service. Salary £700 per annum (New Zealand currency), plus substantial bonuses.

Apply by air mail, enclosing copies of references, sample of recent work, and photograph, to:—

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Christchurch,
New Zealand. 954

ONE Senior Assistant urgently required. Gotch, Saunders & Surridge, Architects, 85-7, Chambers, Kettering. 963

SHARP BROS. & KNIGHT, LTD. Joinery Manufacturers, Burton-on-Trent, have vacancies for a Draughtsman, both at their Head Office, Burton-on-Trent, and at their London Office. Reply in own handwriting, giving particulars of previous experience, and stating age and salary required; replies should be addressed to S. R. Sharp, Dove Cliff, Stretton, Burton-on-Trent; no other applications will be considered. 962

LEWIS'S, LTD. Liverpool, require the services of a first-class Architectural Draughtsman; must be registered, and had experience in Store planning. Apply to the Store Equipment Controller, Lewis's, Ltd., Ranelagh Street, Liverpool. 960

WANTED.—Architect's Assistant, for design and construction of theatres and general work; must be capable and experienced in design, details and specifications; to work under Company's Architect in central London, and start immediately; salary according to experience and qualifications, with good prospects for permanent responsible position; write fully, stating age, experience, and salary required. Box 972.

WANTED immediately, for Architects' office, in West End, capable and experienced Architectural Assistants on housing and general work; interesting and progressive position, with good salary; five-day week; write fully. Box 973.

SIR JOHN BURNET, TAIT & LORNE require Senior Architectural Assistants. Reply, giving age, experience, qualifications, and salary, to 10, Bedford Square, W.C.1. 974

SENIOR Architectural Draughtsman required for industrial and general building construction of varied character, structural design, foundations, etc.; London; permanent; pension fund; salary according to experience; state age, training, and salary required. Write Box 527, c/o Judds, 47, Gresham Street, E.C.2. 982

SOUTH London Chartered Surveyors require Assistant Building Surveyor or Builder's Estimator for Specifications and Schedules of War Damage, etc., supervision and control of work, also Dilapidation Schedules and Bills. Apply, stating experience, age, and salary required, to Box 975.

COMMERCIAL ARTIST required; capable of producing well-finished drawings of various domestic and industrial articles; air-brush and line drawings. Write, stating age, experience, and salary required, to "Illustrator," 32/94, Seymour Place, London, W.1. 981

BRITISH EUROPEAN AIRWAYS (Head-quarters at Northolt).—Applications are invited for the post of Architectural Assistant; applicants must have had site experience of levelling and surveying, and be quick, accurate and tidy draughtsmen; commencing salary £9 per week gross (taxable); participation in a contributory pension scheme, and the passing of a medical examination are obligatory. Applications, giving full particulars of age, education, experience, qualifications, and present remuneration, should be addressed to the Application's Officer, Head-quarters, Northolt, Middlesex, marking top left corner of envelope "LA.4." 968

ARCHITECT, in expanding country practice, including Council housing estate, seeks Partner; chartered and preferably ex-Service and school trained; capital not essential. Apply in confidence, with full particulars, to George C. Oldham, Chartered Architect, "Alder Rise," Lytchett Matravers, Poole, Dorset. Telephone Lytchett Minster 247. 995

EXECUTIVE ASSISTANT for London Architect; must be experienced in working drawings and supervision; commencing salary £700 per annum. Box 987.

DESIGN Section of large, expanding Laminated Plastics concern has vacancies for one Architectural Draughtsman or Industrial Designer (salary £600 to start), and two Architectural or Mechanical Draughtsmen (salary £400 to start); maximum age 36; preference to ex-Service men; experience of plastics not essential; interesting work in a new field, with good prospects for men with initiative, energy and ability. Box No. 928, Dorlands, 18, Regent Street, S.W.1. 986

JUNIOR ARCHITECTURAL ASSISTANT required in the Drawing Office of large Midland Brewery; excellent prospects and every help given towards qualifying; the successful applicant must be prepared to live in, or around, Burton-on-Trent; salary £300 per annum, plus cost-of-living bonus, at present £45. Box 990.

ARCHITECTURAL ASSISTANTS required; salary up to £9 10s. per week inclusive, according to qualifications and experience. Write in first instance, giving particulars to Mr. F. T. Pratt, Ministry of Works, Shaftesbury Road, Brooklands Avenue, Cambridge. 993

WANTED.—Architectural Assistant, for West Riding of Yorks; good draughtsman, with general experience. Full details and salary required to Box 994.

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.

A JUNIOR ASSISTANT seeks post in Bradford area, Yorks; 20 years old; exempt from military service; 3 years' experience in surveying, construction, etc., and general office work. Box 489.

A R.I.B.A. (28) requires permanent post as Assistant; preferably with private firm in or around Berkshire; part time or full time. Box 492.

ARCHITECT'S ASSISTANT (22), student R.I.B.A., studies interrupted by war service, desires position in London office, where good sound knowledge can be gained; 2½ years' experience in detailing, working drawings and surveying; salary £3 10s. P. D. Ancig, "Innisfree," North Park, Gerrards Cross, Bucks. 491

ARCHITECTURAL DRAUGHTSMAN, 7 years' experience in preparation of ¼ in. scale plans, details and survey drawings, requires position in Architect's or Surveyor's office in W. London or Middlesex. Box 490.

ARCHITECT, with wide experience, T.P.I. practice, on staff of recognized school, would like temporary appointment for 7 weeks starting 15th July. Offers to Box 494.

ASSISTANT ARCHITECT (38), returning to U.K. in September, desires contact with Architects requiring temporary or permanent assistance; 20 years' experience in U.K. and abroad; accustomed to responsibility and administration. Box 495.

YOUNG STUDENT requires position in Architect's office; ex-Service man; qualified draughtsman; studying for F.S.I., L.I.O.B., and R.I.B.A. being an A.N. Instle. Box 496.

THIRTEEN years' Architectural Draughtsmanship enable me to offer by services with confidence; 6 years' military service have created a profound distaste for being separated from my family; if, therefore, you can find me a house or flat, in any part of Southern England, I shall be happy to furnish further information of drawings. Box 497.

TWO Architectural Students, at intermediate and final R.I.B.A. standards, require work together in an Architect's office in London for the month of August. Box 498.

ARCHITECTURAL ASSISTANT, recently demobilised; 4 years' experience and 5 years with the Royal Engineers as draughtsman; levels, surveys, working drawings; willing to start on any interesting type of work; South, East or Midlands. Box 500.

ASSISTANT, 25, seeks position in Bournemouth-Southampton area; 9 years' experience surveys, levels, etc., for houses, flats, shops, factories; quick, neat and accurate draughtsman. Box 499.

SWANSEA, DRAUGHTSMAN requires post in this area; 8 years' experience on site and in office, factories, housing and general; own car; salary not main object. Box 1.

ARCHITECTURAL ASSISTANT (28), just released from Forces, requires appointment; passed Inter. R.I.B.A. 1940, studies for final well advanced; competent draughtsman and designer, surveys, levels, etc., Radford, Combe Ridge, Swain's Road, Budleigh Salterton, Devon. Tel.: B.S. 678. 493

Other Appointments Wanted

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R. I.B.A. and T.P. INST. EXAMS. Private Courses of Tuition by correspondence arranged by Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I. Tutor, 212, Buxton Road, N.W.1. Tel.: BUS. 7750. 415

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