THE ARCHITE CUBING LIGHT ARTY STACK I O I R N ATROL



tandard contents

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

NEWS and COMMENT

Diary News

Architects' Commonplace Book Astragal's Notes and Topics

Letters

Societies and Institutions

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TECHNICAL SECTION

Information Sheets Information Centre Current Technique Questions and Answers

Housing Statistics

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

Architectural Appointments Wanted and Vacant

No. 2714] [Vol. 105 THE ARCHITECTURAL PRESS Editorial: Thirteen Queen Anne's Gate, Westminster, S.W.1. Phone: Whitehall 0611 Subscriptions and Advertising: Forty-Five The Avenue, Cheam, Surrey. 'Phone: Vigilant 0087-9.

SIA SNTPC

SPAB

TCPA

TDA

TPI

TTF

WDC

ZDA

WEDA

Price 9d.

Registered as a Newspaper

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

mentioned	the word LONDON is implicit in the address,
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.
ICE IEE IES IGE IHVE	Institution of Civil Engineers. Great George Street, S.W.1. Institution of Electrical Engineers. Savoy Place, W.C.2. Illuminating Engineering Society. 32, Victoria Street, S.W.1. Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.
IIBD	Victoria 0146/7 Incorporated Institute of British Decorators. Drayton House, Gordon Street,
ILA IOB IRA ISE LIDC	U.C.1. Euston 2450 Institute of Landscape Architects. 12, Gower Street, W.C.1. Museum 1783 Institute of Builders. 48, Bedford Square, W.C.1. Museum 1797 Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 Institute of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29 Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264
LMBA MARS MOA MOE MOH MOLNS MOS MOT MOTCP	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3767 MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8. Park 7678 Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400 Ministry of Education. Belgrave Square, S.W.1. Sloane 4522 Ministry of Health. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6330 Ministry of Transport. Berkeley Square House, Berkeley Square, W.I. Abbey 7711 Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.
MOW NAMMC	
NAS NBR NCBMP	94, Petty France, S.W.1. Abbey 1010 National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 5277/8 National Building Record. 37, Onslow Gardens, S.W.7. Kensington 8161 National Council of Building Material Producers. 2. Caxton Street, S.W.1.
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street,
NFBTO	W.1. Langham 4041 National Federation of Building Trades Operatives. 8, Rosebery Houses, Breams Buildings, E.C.4 Holborn 1881
NFHS NHBRC	National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3 National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.I. Museum 1264
NPL NRIAD	National Physical Laboratories. Head Office, Teddington. Molesey 1380 National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2. Whitehall 2415
NSAA	National Smoke Abatement Association. Chandos House, Buckingham Gate, S.W.1. Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
PEP PWB	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245 Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House,
RCA RICS	Reinforced Concrete Association. 91, Petty France, S.W.1. S.E.1. Reliance 7611 Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh 20396
RIB RIBA RFAC RS RSA RSI SCR	Rural Industries Bureau. 35, Camp Road, Wimbledon S.W.9. Royal Institute of British Architects. 66, Portland Place, W.1. Royal Fine Art Commission. 6, Burlington Gardens, W.1. Royal Society. Burlington House, Piccadilly, W.1. Royal Society of Arts. 6, John Adam Street, W.C.2. Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Society for Cultural Relations with the USSR. 98 Gower Street, W.C.1. Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inc. 1213

Society of Industrial Artists. 20, Wellfield Avenue, N.10. Tudor 7027
Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3.
Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.

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Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988

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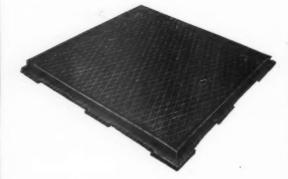


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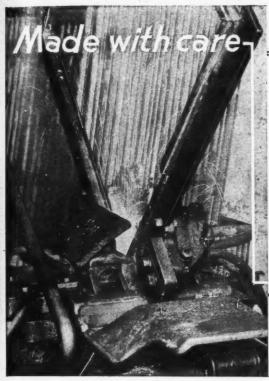
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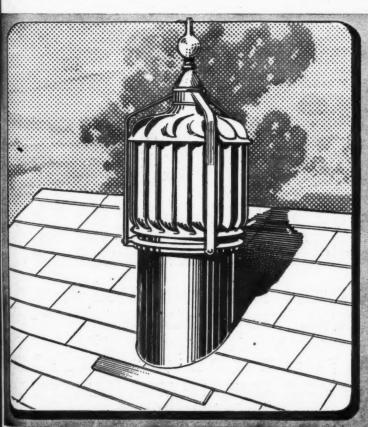
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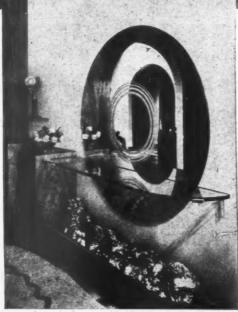
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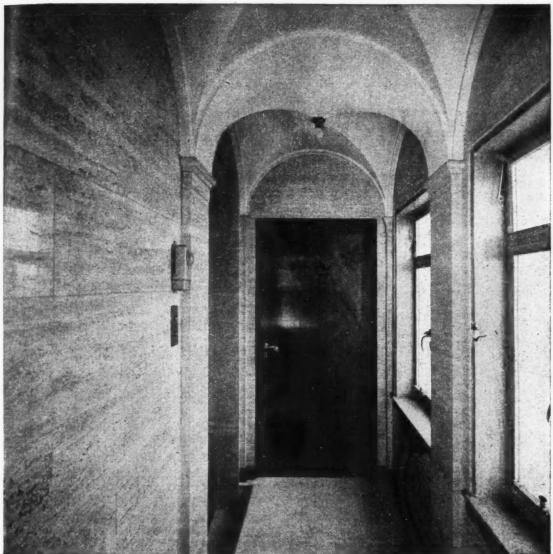


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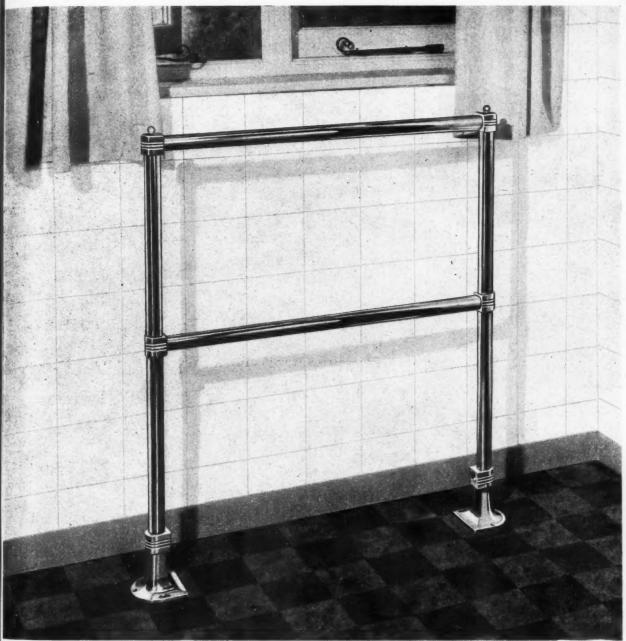
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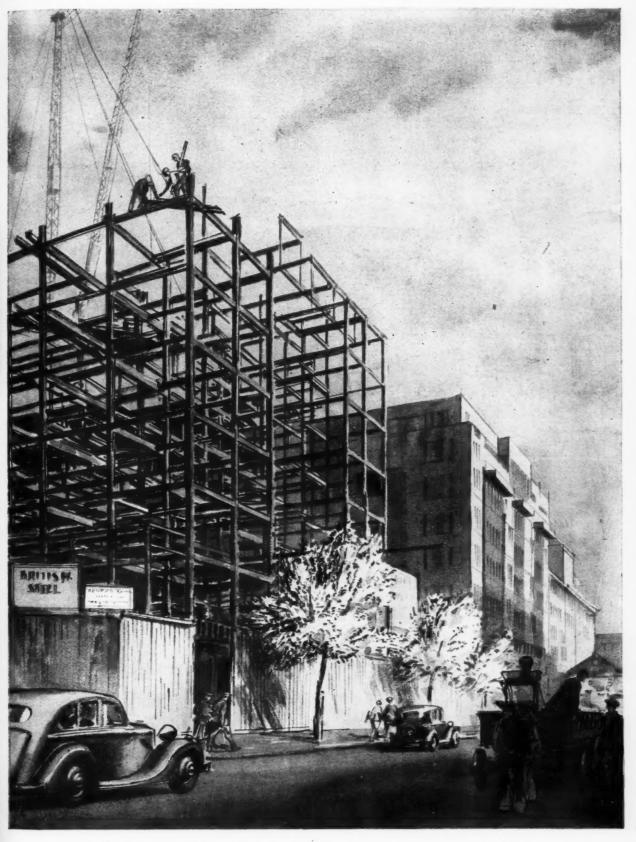


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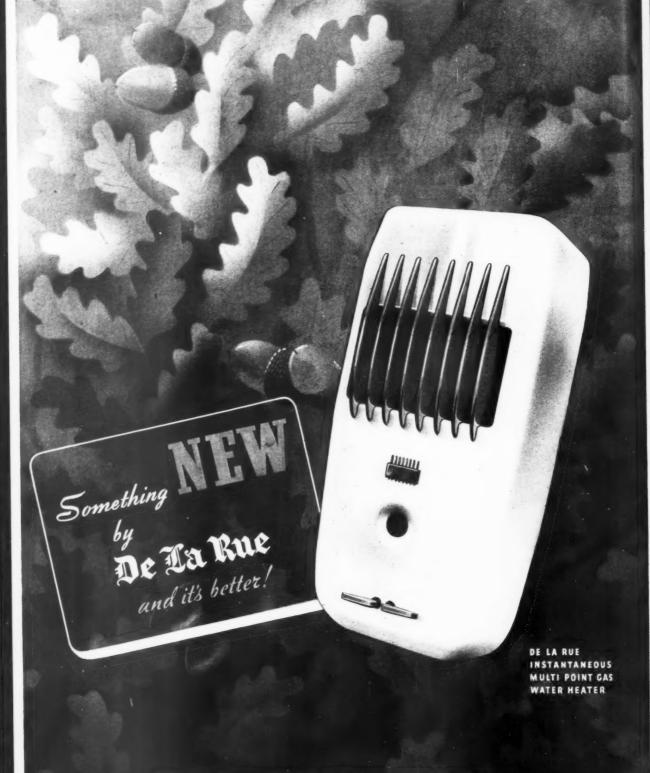


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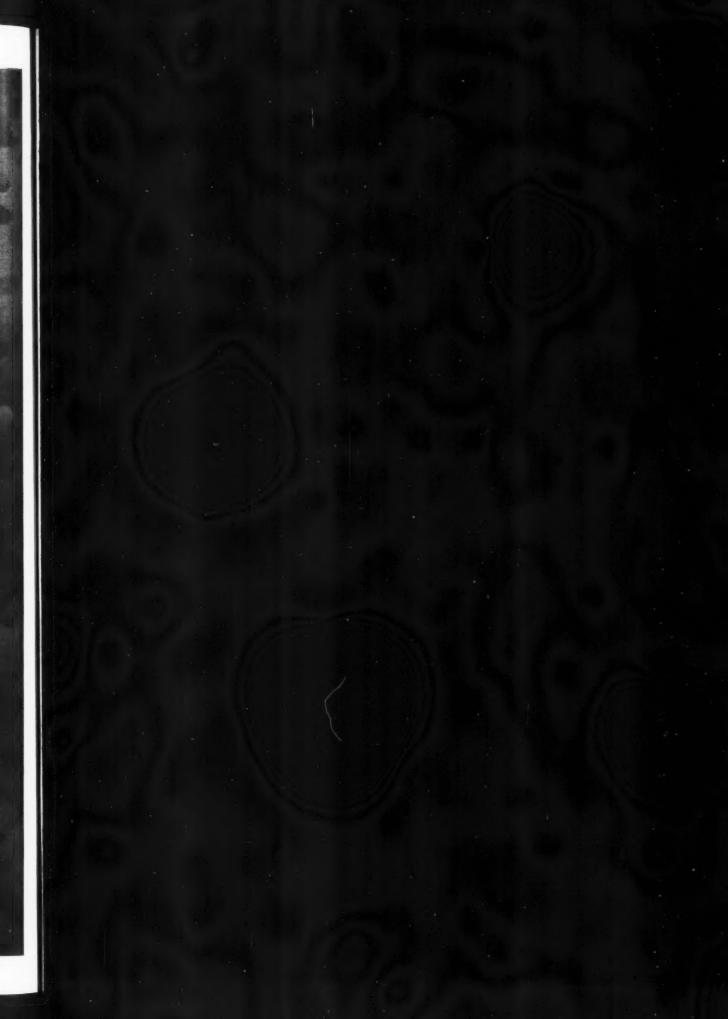
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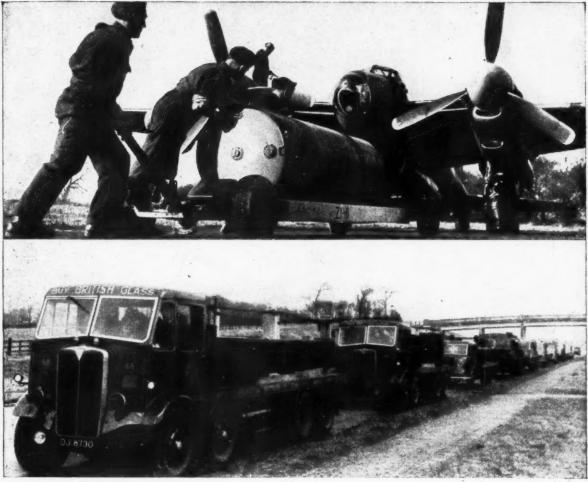


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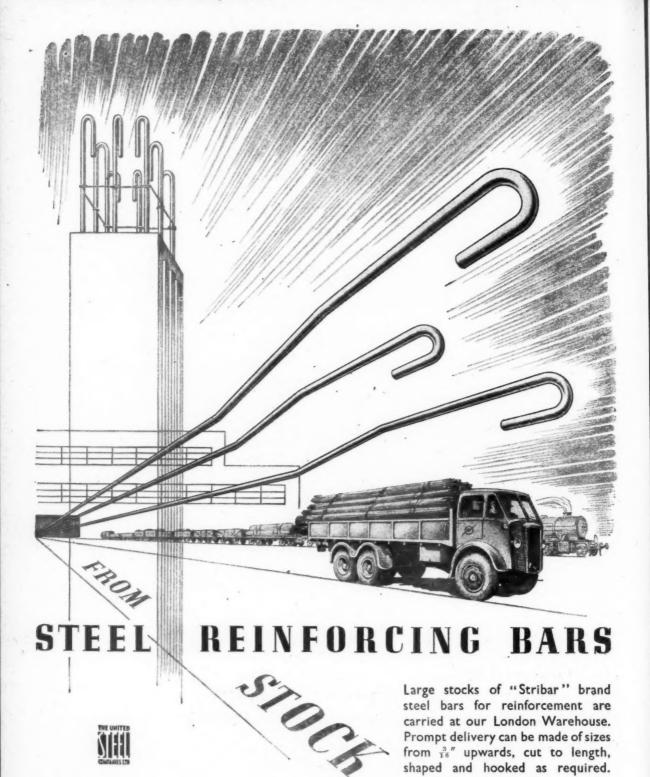


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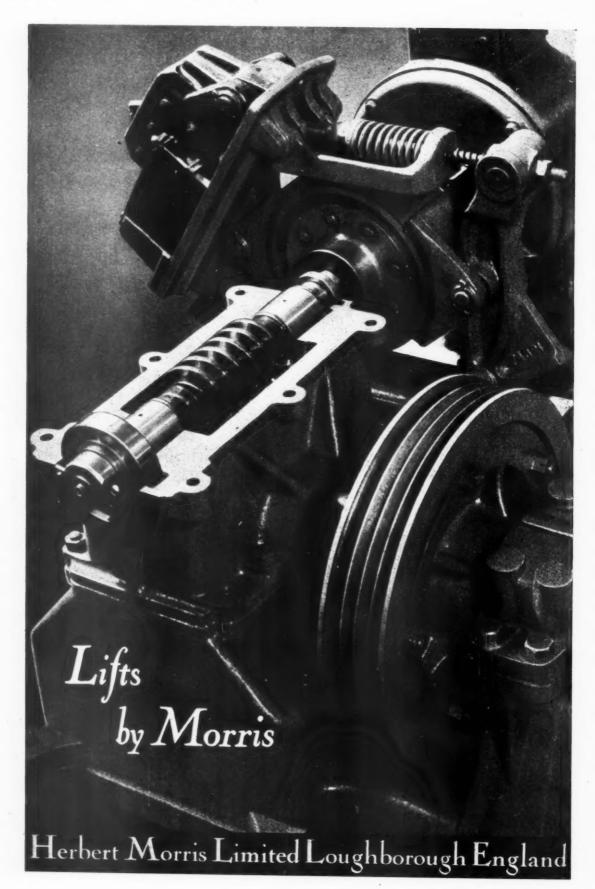
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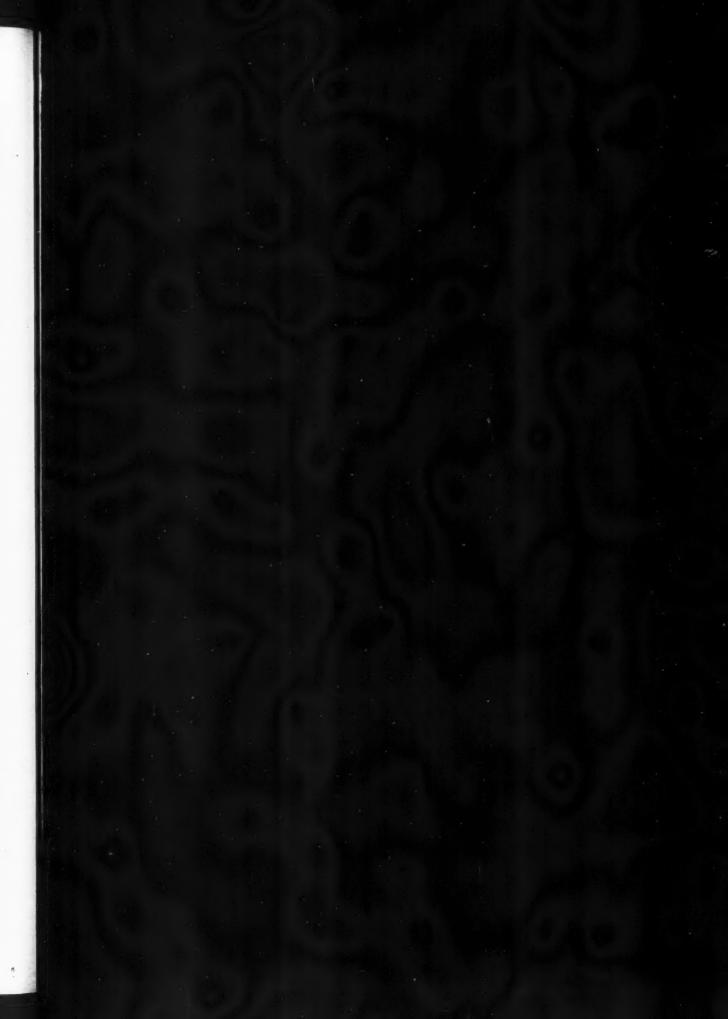
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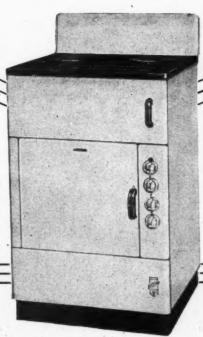
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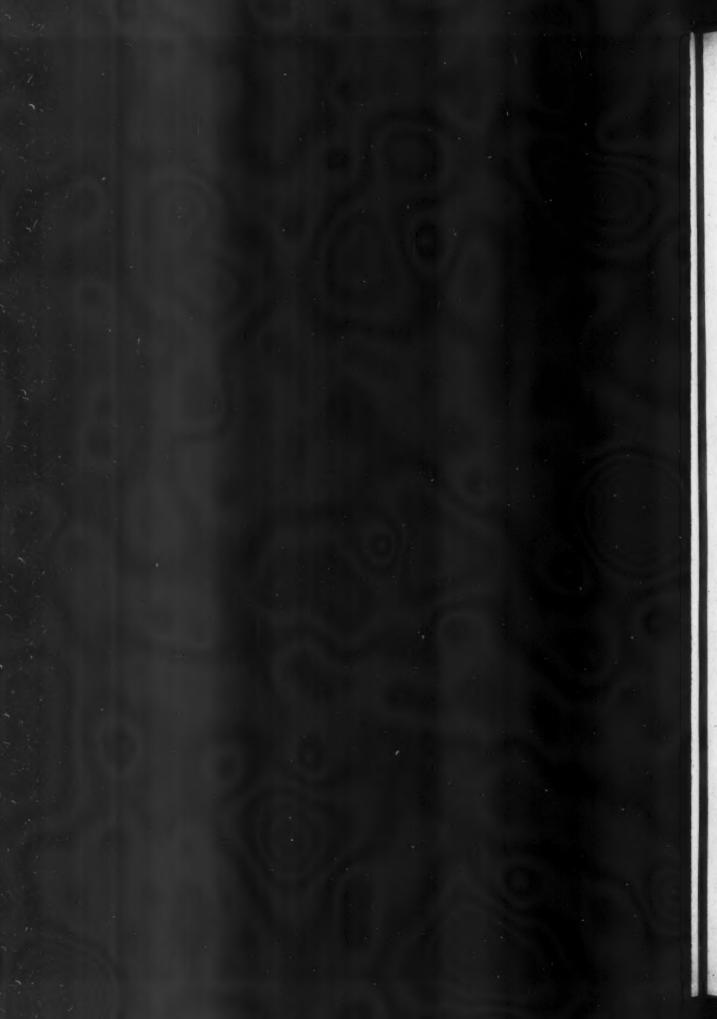
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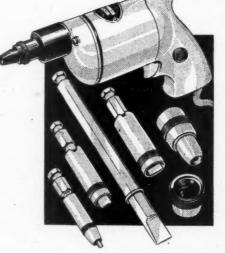
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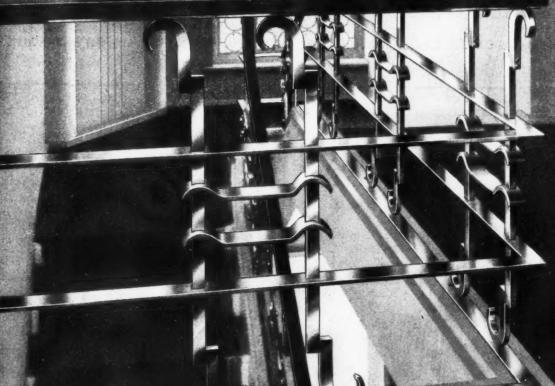
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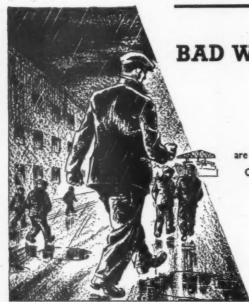


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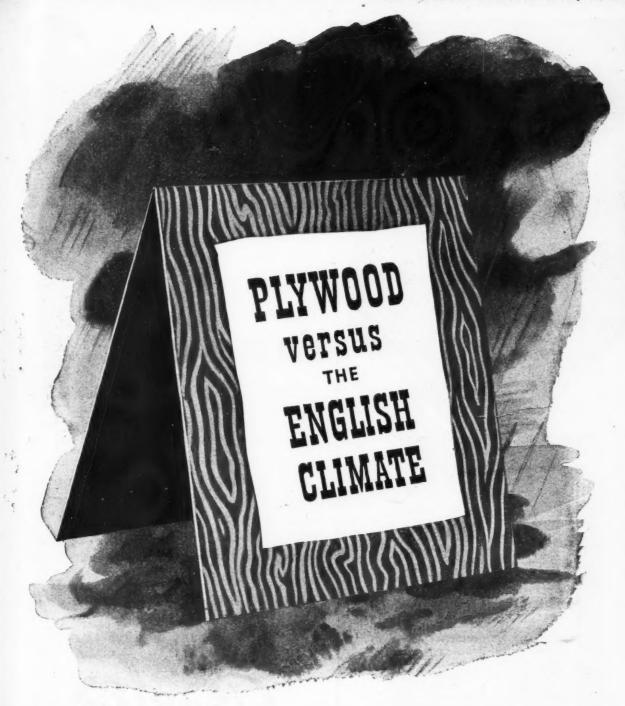
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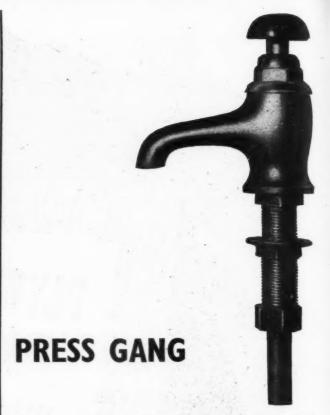
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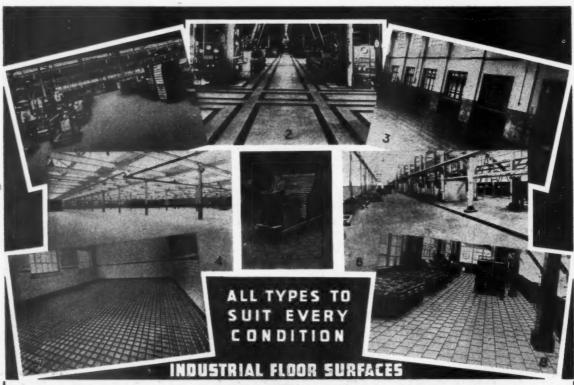


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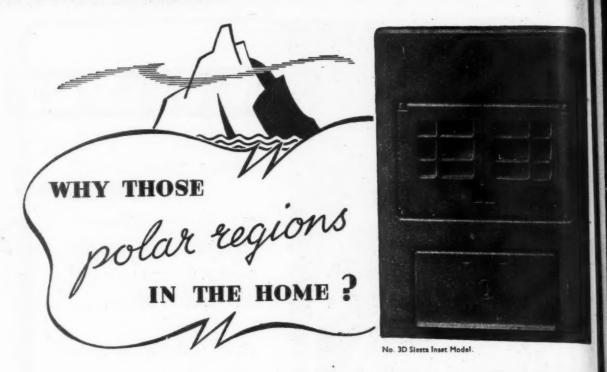
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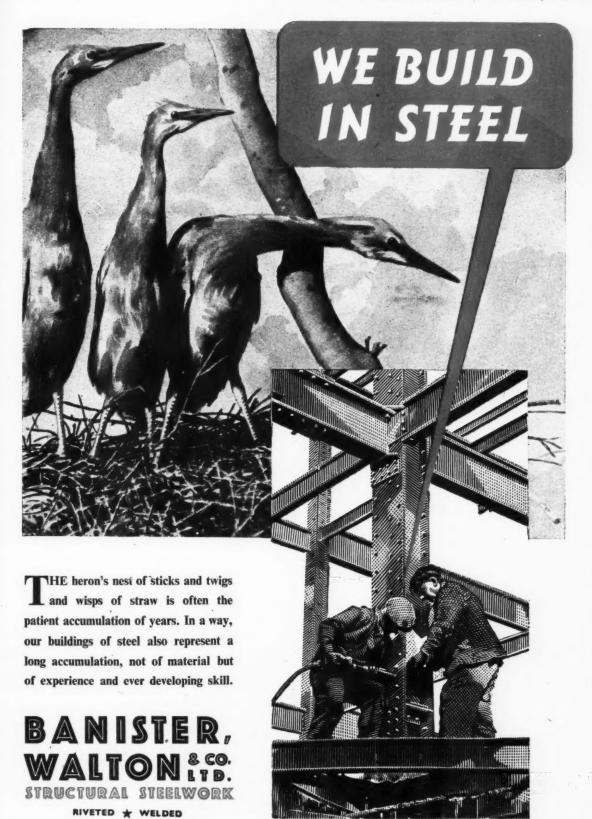
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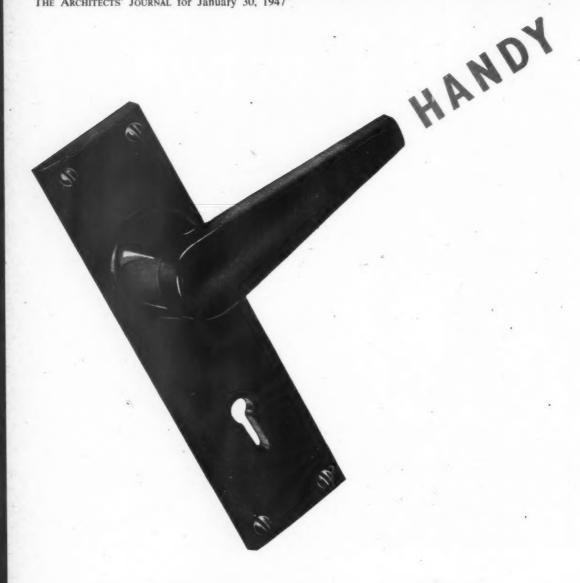
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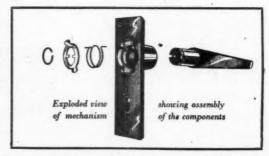






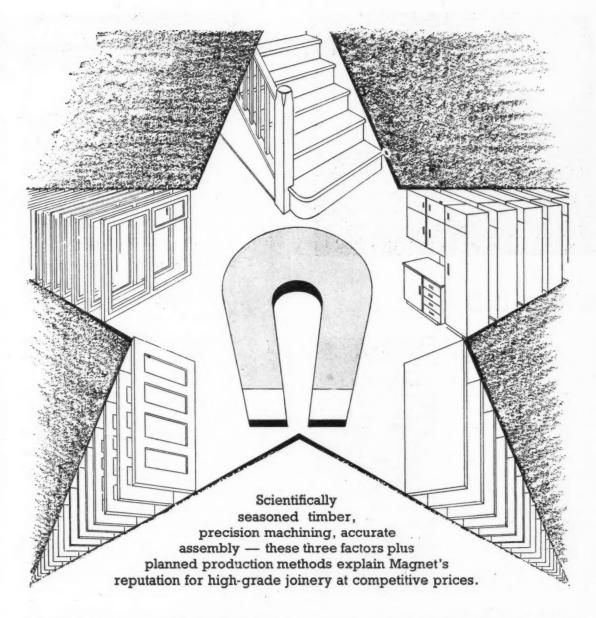
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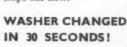
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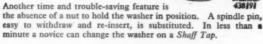
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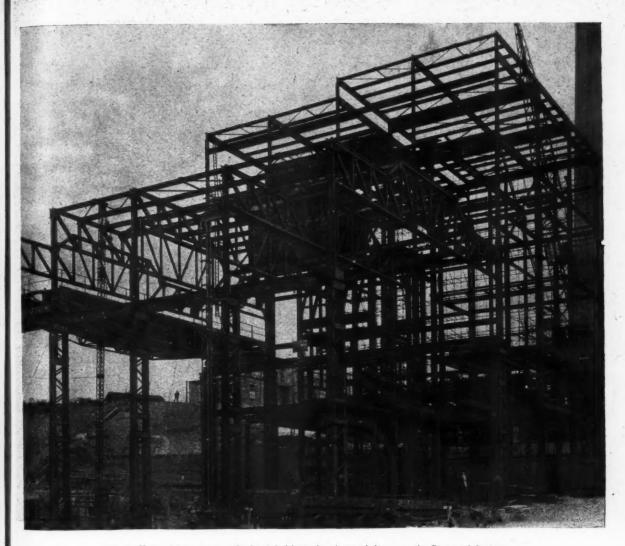
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U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound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

DIARY FOR JANUARY FEBRUARY AND MARCH

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.

L ONDON. Exhibition of the King's Pictures. At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 a.m. Admission 1s. 6d. Until Mar. 16 Paintings by British Soldiers in Germany. Exhibition at Heal's 195, Tottenham Court Road, W.C. (Sponsor, National Council of YMCAs.) 10 a.m. to 5.30 p.m.

Until Jan. 31

Until Jan. 31

Gas in the Design for Living. Exhibition at the Building Centre, 9, Conduit Street, W.1. Weekdays, 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m. (Sponsor, British Gas Council.)

Ethionian Exhibition of Arts. Crafts. In-

Ethiopian Exhibition of Arts, Crafts, Industry and Education. At Foyles Bookshop, 111, Charing Cross Road, W.C.2. 9 a.m. to 6 p.m. (Sponsor, Princess Tsahai Memorial Hospital Council.)

Rural Building Materials Exhibition. At the Building Centre, 9, Conduit Street, W.1. Exhibits will include 25 panels of handmade bricks from various counties, examples of stone walling, rubble Bath limestone, Kent flintwork, repatching straw thatching, and slates from Westmorland, Wales and Cornwall. (Sponsor, Rural Industries Bureau.) 10 a.m. to 5 p.m. Until FEB. 15 S. J. Worsley, Principal of the College of Estate Management. Professional Education. At the Royal Institution of Chartered Surveyors, 12, Great George Street, S.W.1.

Estate Management. Professional Education. At the Royal Institution of Chartered Surveyors, 12, Great George Street, S.W.1. (Sponsor, RICS.) 5.30 p.m. FeB. 3 Major G. M. Watt, of Richard Costain Ltd. Solving the Immediate Housing Problems in Rural Areas. At the Housing Centre, 13, Suffolk Street, S.W.1. 1.15 p.m. (Sponsor, HC.) FeB. 4

Philip James. The Revival of the Visual Arts. At the International Arts Centre, 3, Orme Square, Bayswater Road, W.2. (Sponsor, IAC.) 8 p.m. FeB. 4

G. Grenfell Baines and Raglan Squire. Partnership and Profit Sharing. Third of the informal lectures on Office Organization. At the RIBA, 66, Portland Place, W.1. Chairman, H. V. Lobb. Grenfell Baines will deal with working relationships in the profession and will discuss the question of rewards, recognition, and the opportunities and responsibilities which arise from certain types of group sharing. He will also give a brief account of the measures adopted for carrying out the aims and ideals of his organization. Raglan Squire will talk about the relationship of partners and asso-

EX.

ciate architects in a firm. and of the advantages and disadvantages to be derived from abbreviated names for architectural firms. He will also deal with the question of the distribution of profits and staff welfare as well as with the relation which exists between clients and members of the staff. Light refreshments will be available at a small charge from 6.0-6.30 p.m. for those coming direct from their offices. Lecture, 6.30 p.m. (Sponsor, RIBA.)

FEB. 4

M. Maurice Lebrun. Thermic Drilling of Concrete and Stone. At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m.

Michael E. Rowe. The New Towns Act, 1946. At the Auctioneers' and Estate Agents' Institute, 29, Lincoln's Inn Fields, W.C.2. (Sponsor, AEAI.) 6 p.m. FeB. 6 Richard Lonsdale-Hands, the British Industrial Designer. Packaging. At the Lighting Service Bureau, Savoy Hill, W.C. (Sponsor, British Display Association.) 7 p.m. FeB. 6

Spanish Paintings. Exhibition at the National Gallery, Trafalgar Square, W.C. (Sponsor, National Gallery and the Arts Council.)

W. Mac Quitty, of the Film Producers Guild Ltd. The Way We Live. At the Housing Centre, 13, Suffolk Street, S.W.1. 1.15 p.m. (Sponsor, HC.)

FEB. 11

1.15 p.m. (Sponsor, HC.) FEB. 11

RIBA President's Address to Students and Presentation of Prizes. At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. FEB. 11

AA Exhibition of Photographs by Members. At the AA, 34-36, Bedford Square, W.C.1. As far as possible photographs should be mounted on white cards 16 inches high, and title, name, make of camera, etc., should be printed on the front of the mount in the bottom right-hand corner. Photographs should be delivered to No. 36, Bedford Square not later than February 20. (Sponsor, AA.)

Brixton School of Building Association Re-union. Reception and dance at the Bedford Hotel, Balham, S.W. Past students, from all sections of the School, cordially welcomed. Tickets, price 5s. (including buffet), obtainable before March 1 from the Hon. General Secretary, Brixton School of Building, Ferndale Road, S.W.4.

S OUTHEND. J. Hacking. The Generation and Wholesale Distribution of Electricity. At the South Parade Pier, Southend. (Sponsor, IEE, Southern Centre.) 3 p.m. Feb. 8

NEWS

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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.

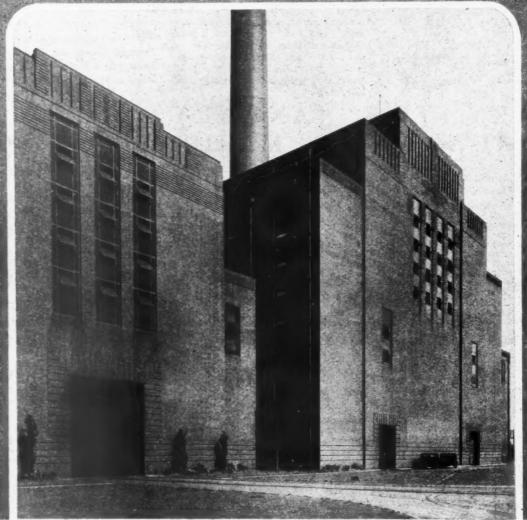
Any features marked with more than two stars is very big building news indeed.

**

The Bishop of Coventry, Dr. Neville Gorton: Although the rejection of Sir Giles Gilbert Scott's new COVENTRY CATHEDRAL is "a shock," nothing can be gained by recrimination of what might have been or by a dispute about aesthetics. We have to agree, he said, that the Fine Art Commission is a body whose quality of judgment we are right to trust. They must consider again what was the best possible use they could make of the site. A mere building was not the basic thing. At this juncture they believed the time was right for Christians to come together in new ways to discard fear and provide a new unity of front.

Miss J. E. Vann, of the Leicester School of Architecture, has WON THE PRESIDENT'S PRIZE of the Leicester and Leicestershire Society of Architects. The awards were:—President's Prize (10 gns.): First, Miss J. E. Vann; second, E. Wilford; commended, D. Cooke. Class II: First, D. F. Clayton; second, G. W. Ireland. The prizewinners are students of the Leicester School of Architecture.

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From AN ARCHITECT'S Commonplace Book

THE NEED FOR FANTASY. [From The Castles on the Ground, by J. M. Richards (Architectural Press).] One mistake that modern architecture has to avoid making is the mistake of allowing itself to become a specialized art that can only be appreciated by the minority. For a minority art is a closed art, closed to the warming influence of popular enthusiasm and understanding. It also tends to be dogmatic and to lack the common touch that should enable it to reflect those human vagaries which are the foundation of architectural richness. In the nineteenth century popular enthusiasm was concentrated on technical progress, and this gave even the most practical tasks the character of a mission to be fulfilled. The present century has become blasé about technical progress as a whole, though it still feels sufficiently strongly about things like motor cars and aeroplanes and radio sets. The twentieth-century equivalent of the tasks of mechanical invention that so uplifted the nineteenth the problem of social adjustment to the mechanical world. The railway mania of the eighteenforties is logically succeeded by the planning enthusiasm of the nineteen-forties, and the popular interest in nursery schools and welfare centres and underground car parks ought to be able to do for our society what, say, the laying of the Atlantic cable or the completion of the Thames Tunnel did for that of a hundred years ago; namely, bind people together with a sense of common purpose. The possession of this sense is what produces a truly vernacular character in architecture and design. We find it in the design of the suburban landscape, and there it can be developed still further as one aspect of modern architecture's growth towards maturity—not, it should be made quite clear, by the introduction of fancy-dress styles, but by fostering a modern æsthetic that allows romance and fantasy to flourish, as distinct from one dictated solely by rational scientific planning. Whether romance and fantasy are engaged in inspiring the creation of modern nursery schools or of traditional cottage homes, their part in the suburban set-up is a permanent one, even though at the present moment the common purpose of the suburbs may be primarily one of organizing a system of defences against the unkindness of a hostile

The King, on the recommendation of the RIBA has awarded THE ROYAL GOLD MEDAL for 1947 to Professor Albert Edward Richardson, R.A., Hon.M.A. (Cantab.), F.S.A., F.R.I.B.A.
Professor Richardson is well-known, not only for the buildings he has designed, but only for the buildings he has designed, but also for his work in architectural teaching. He has a genius for inspiring enthusiasm in architectural students and is himself a brilliant draughtsman, as all those who have seen his designs in the Architecture Room at the RA exhibitions will know. He began teaching in 1900 at the age of 20, and from 1910 will recently be unexpected. 1919 until recently he was Professor of Architecture in the University of London. He has just retired from this post and has been appointed Director of the Royal been appointed Director of the Royal Academy Architectural School. While in private practice he has been responsible for a wide range of buildings including, amongst others: St. Margaret's House, a block of offices and showrooms in Wells Street, London; the Jockey Club, Newmarket, the Royal Pavilion at Ascot, and the Church of the Holy Cross at Greenford, noted for of the Holy Cross at Greenford, noted for its fine timber roof, completed in 1941. For more than ten years he was engaged on the repairs of the Bedfordshire churches, and he rebuilt the church at Easton Socon. Between 1939 and 1941 he designed and superintended the building of the North London Collegiate School. Professor Richardson's most notable work was done in connection with some of the additions to University College in Conver Street in 1931. In connection with some of the additions to University College in Gower Street. In 1931 the London Architecture Bronze Medal was awarded for St. Margaret's House which was designed by him while in practice with Mr. Lovett Gill. For the past five years he has been engaged on a plan for the complete remodelling of University College. Elected a modelling of University College. Elected a Fellow of the RIBA in 1913, and Vice-Prereliow of the RIBA in 1913, and Vice-Premident for 1937-38, he was elected Associate
of the RA in 1936, and Royal Academician
in 1944 During the time he resided at St.
Catherine's College, Cambridge, he was
elected to an Honorary Fellowship. He is
a member of the Royal Fine Art Commismion, and Deputy Chairman of the Georgian
Group, being particularly interested in late

Georgian work, on which subject he is an expert. He has been Master of the Art Workers Guild, and is Chairman of the Friends of the City Churches. He lives in a lovely 18th Century house at Ampthill, filled with a magnificent collection of furniture of the same period. Professor Richardson's best known books on architecture are: Monumental Classic Architecture in Great Britain and Ireland during the 18th and 19th Centuries; Georgian England; Old Inns of England; The English Inn, Past and Present, and with Professor Hector Corfiato, The Art of Architecture. Under the editorship of G. M. Young, Professor Richardson was also responsible for Victorian England. In addition, he has written a large number of articles on architecture, particularly for the Journal of the RIBA. He has a wide knowledge of the Arts and his wit and ability at repartee, his brilliant draughtsmanship and skill as a water colourist all combine to create a vivid and unusual personality.



Awarded the Royal Gold Medal: Professor A. E. Richardson. See News Item.

Early this year AN ALL BRITISH TRADE FAIR will be held at Amsterdam. An All-British Trade Fair will be held early this year at the Victoria Hotel, Amsterdam. Many of the goods from the Britain Can Make It exhibition will be displayed against a photo montage background of some of the original stands. Manufacturers wishing to exhibit can obtain full particulars about space and cost from the organiser, Mr. S. H. Hartog, Export Consultant, 9, Radnor Lodge, Sussex Place, W.2. The exhibition will be designed in collaboration with Mr. Nyenhuis, of Utrecht.

Mr. Arthur Ronald Clark, A.R.I.B.A., A.M.T.P.I., has been APPOINTED COUNTY ARCHITECT to the County of Lincoln: Parts of Lindsey County Council.

An appeal is being made for funds for a LONDON CENTRE FOR EX-SERVICE MEN and Women. A building in Seymour Street, Marble Arch, comprising public rooms and many bedrooms, has been obtained, and efforts are being made to acquire the extensive bombed site adjoining the existing building, with a large frontage to Edgware Road, and another to Seymour Street. This will be built upon as soon as conditions permit. When finished, the whole will probably be the largest and most complete centre of its kind in existence. It is hoped that the premises will be ready for occupation in the late spring. Donations will be devoted to the completion of the project, equipment and maintenance. Contributions should be sent to Field-Marshal Lord Chetwode, or the Hon. Treasurer, The Victory (ex-Services) Association, 47, Bedford Row, London, W.C.1.

Save the Floating Aedicules

No more licences for the building of pleasure boats are now being issued. This is a shortsighted policy, for it may lead to the ruin of an industry for which this country has long been famous. Craftsmanship, like a coil of rope, is continuous. If a craft is broken up, the process by which skill is handed on from man to man ceases, the craftsmen are dispersed, and the craft is lost, perhaps, for ever. During the war we were at one critical point saved by our little ships. We may need them again, and there-

fore the traditional skill to build them and to sail them. To claim that all timber is now needed for house building is specious, for the amount used in boat building is relatively infinitesimal, and mostly hardwood. Because small boat sailing is part of the English way of life, and because a fine building craft is threatened, architects as well as yachtsmen and shipwrights, should be glad to see this new restriction removed. The photograph, by Eric de Maré, A.R.I.B.A., shows the after deck of a racing cutter.

Keli half Mr. regi

cru

Percy Gordon Kelvey (61), was fined Lio at Manchester for PRACTISING AS AN ARCHITECT WITHOUT. BEING REGISTERED. He was ordered to pay three guineas costs. orde:ed to pay three gumeas costs.
Kelvey pleaded guilty. Prosecuting on behalf of the Architects' Registration Council.
Mr. J. Eva, solicitor, said: Kelvey is not registered as an architect, but set up business at Moss Lane East, Moss Side, and has done a considerable amount of architectural work. His work is of a somewhat crude character, and as such is not worthy to be associated with the name of architectt. The Council is concerned that the mahlic should think this is the sort of work teett. The Council is concerned that the public should think this is the sort of work turned out by registered architects. Kelvey has expressed his regret and says he will cease work as an architect and intends to withdraw the nameplate from his door and have his description amended in Kelly's Directory. Mr. W. J. Moore, barrister, defending, submitted that Mr. Kelvey had worked as an architect for 37 years, and although he had twice applied for registration with the Council he was for registration with the Council he was unable to find enough qualified architects to support his application. He therefore decided to take the risk of carrying on business without being registered. He came to Manchester in 1935 and became very successful. Eventually he was appointed archilect to an Oldham firm of builders and became responsible for the supervision of the Victoria Avenue Estate, Higher Blackley, and the Gorton Estate, Manchester. I submit that his work is not of a crude nature, said Mr. Moore. All his work done in Manchester has had to be submitted to the Manchester Corporation, and the Corporation are known as a people who require accuracy and minuteness of detail in their

Under new plans disclosed by Mr. Tomlinson, Minister of Works, BLACK MARKET BUILDERS are now to be prosecuted direct by local authorities. Local authorities will have as his agents the additional power of issuing licences for all housing work, irrespective of cost. To ensure that as much labour and materials as possible are still concentrated on the construction of new houses, Mr. Tomlinson has made an order retaining for another six months the present limits of costs above which licences are necessary. This order provides that between February 1, 1947, and July 31, 1947, work may be done on a house without a licence, provided the cost during the six-month period does not exceed £10. In addition, work costing not more than £2 may be carried out without licence in any one month, not accumulative. This £2 allowance is for small repairs such at taps and tap washers.

Subject to the approval of the City Council, Mr. J. H. Lloyd Owen, B. Arch., A.R.I.B.A., has been appointed DEPUTY CITY ARCHITECT OF MANCHESTER.

Mr. Owen graduated at the Liverpool University School of Architecture in 1924 and has held appointments with the City Architect of Liverpool and as Regional Architect, Ministry of Health. He is at present Chief Architect in the City Engineer's Department, Nottingham.

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A NEW TOWER OF BABEL?

"... When the United Nations meet our leaders will proceed, with that fearful automatism which characterises so much of our political thinking to-day, to take the next step that their earlier actions have indicated—somewhat like a hunter lost without a compass in a bog, stepping judiciously from hummock hummock, without troubling to ask himself whether he is headed for solid ground, still less whether, in the first place, he has properly equipped himself for the expedition."

WE are prompted to remind our readers of these words from Lewis Mumford's talk at the RIBA on July 12 last year,* by the news that Mr. Wallace K. Harrison has been appointed as Director of Planning for the general planning of the new UN headquarters site in New York. The site has been provided by Mr. Rockefeller and Mr. Harrison was one of the architects associated with that monument to commercial success, the Rockefeller Center.

It appears that there will be no public competition for the new buildings, and the site has been accepted by the General Assembly of the United Nations. Thus two Judicious Steps have been taken. The next step already agreed upon is that Mr. Harrison will recommend a series of distinguished architects and "industrial architects"-specialists in various fields and from various countries-for appointment as a Board of Design Consultants. The appointments are to be confirmed by the Headquarters Commission. The Board will then proceed to plan and design the permanent headquarters. (In passing, it may be noted that the accepted site falls far short of the area of 1,280 acres recommended by the Headquarters Commission in their Report of last October.) We do not yet know anything of the programme to which these distinguished architects have to work, but it may be assumed that the indications of the Secretariat given to the Commission are a fair guide. No basis is given for these indications. The Assembly in taking the steps described above may have been influenced by the tragic results of the Competition for the League of Nations Headquarters at Geneva-the production of the largest architectural white-elephant in history. The present situation seems very little better. It may be economic and politic to accept the proferred site but as Le Corbusier has put it "Now, the United Nations is neither a dependency of New York, nor of the United States of America, Freedom -not constraint-must at every minute be the dominant feeling. In no case must the United Nations become a corollary of America. To implant its Headquarters in the very shadow of the skyscrapers of Manhattan is inadmissible. The Manhattan skyscrapers are by their nature too precarious; New York is a thrilling city, but so questionable that it cannot take the Headquarters of the United Nations into its lap." While there is very little reason why the centre should not be sited in the USA, we must agree with Mr. Mumford, who is

the most persuasive and eloquent of those who feel that

vigorous but aimless steps are being taken with ill-considered

haste and an absence of sincere analysis that will arouse

* See A.J., July 25, 1946, p. 70

regrets not only among architects, town planners and sociologists, but also among all those who visualise the United Nations headquarters as a symbol of human unity and progress, and not merely a set of administrative offices. As Corbusier also remarks, "The United Nations must admit where its city is concerned that its role obliges it to be an example for the world; it will open the gates to the future. If, by unfortunate misadventure or tragic breach of faith these gates should close, the United Nations would prove unable to assume the role of anticipator of these new times." It is for this reason that we would urge the architects who will have the responsibility of advising the Headquarters Commission, before they take any irrevocable steps, to consider Lewis Mumford's words. The leaders of the nations are still in the position of Mr. Mumford's hunter. Perhaps it is useless to expect a sane yet inspired expression of international unity in building, until the objective becomes clearly defined.



The Architects' Journal

23 Queen Anne's Gate, Westminster, S.W.z. Phone: Whitehall obzz

NOTES

TOPIC

CZECH MATE REPORT

One of Astragal's agents has just returned from Prague. At the moment, he says, Czechoslovakia is no place for an architect. Here we mutter moodily over the slow progress made in building. In Czechoslovakia there is hardly any progress at all. War damage repairs, yes. Building of new housing, no. The story is a familiar one to us. Rising prices, and wages, an absence of essential materials, controlled rents that make private building for investment not a thing even to think about and, above all, a shortage of manpower.

All the articles that have ever been written here on those subjects would ring familiar bells if translated into Czech. But there is another factor, one that we are without. Czechoslovakia has divested herself of some three million Germans, and is in the process of sending back to Hungary about a quarter of a million Hungarians. The Hungarians will be replaced by returning Slovaks. At the moment the Germans will not be replaced at all, with the result that there is, in the border lands in Bohemia and Moravia, a positive surplus of housing accommodation.

The principal shortage of housesor, rather, of flats-is in Prague itself, and there again the reason is only too familiar. Czechoslovakia is undergoing an extensive process of nationalization. Industries are being grouped and centralized and, when any inhabitant of this country hears those words he feels that he can predict with absolute certainty what the next phase will be. The new civil servants want They have priority decrees behind them and the result is that they still occupy the best flats. If ever there was a town ripe for a first-class squatters' movement, it is Prague.

The said agent was in Prague over Christmas, which apparently filled him with no nostalgic longing for home. Not because he was not more than a four-hour flight from Northolt, but because of the beauty of the city at this time of year. Snow and sunshine, the grinding of the trams up and down Wenceslas Square, the lighted Christmas trees in odd corners of the

town, the rows of stalls laden with all the little tinsel and glass decorations that we have missed for so long, the neon lights when dusk comes; Prague, it seems, is the ideal town for Christmas.

ADVERTISE BRITAIN

The French Government has just issued five new stamps illustrating five famous French churches-Notre Dame of Paris, St. Julien at Le Mans, St. Front of Periguex, St. Sernin at Toulouse, and Notre Dame du Port at Claremont-Ferrand. Congratulations to the Ministère des Postes et Télegraphs for its excellent idea. I hope the GPO will have ideas of the same sort and give us a change of stamp design once in a while. Apart from making stamp licking a less boring occupation, the depicting of some of our famous buildings and other cultural symbols might do a little to help the proposed Import of Tourists

LOST HORIZON

Interviewed in New York, en route for Hollywood, Mr. Cyril Connolly, editor of Horizon, revealed some of the secrets of his unquiet playpen. "I have," he said, "a tendency to brood... sometimes I get one adjective from an afternoon in the bathtub.... I have a vast store of general knowledge—bridge, chess, old furniture, china, and travelling... one by one they all turn to dust and ashes, and I look about for a new distraction."...

How about taking a look at *Horizon* for a change, Mr. Connolly? That December issue is enough to distract anybody, for it includes the staggering results of the Ugliest Buildings Competition. The winning pictures are reproduced opposite, and I am sure you won't have to spend the afternoon in the bathtub to agree with me that the adjective most suited to the whole affair is Lamentable.

The photographs are bad, the captions incomplete or inaccurate, and the decision of the editor may have been final, but it is certainly not right. The visual quality of the winner, for instance, is surely an inexpert wilfulness rather than downright ugliness, and since an element of fantasy is never

out of place in a country retreat, this would seem almost a virtue. Isokon Flats (2nd prize) are admittedly-like most buildings in London -in need of repainting, but to call them ugly is to imply that their form is distorted and that their shape has been conceived by an untrained and insensitive mind. This is a ludicrous misjudgment of a building which, for all its faults, is generally considered to be a minor milestone in the history of this country's architecture, and expresses in all its dimensions the control of an imaginative and purposeful mind. To add, as has been done in the caption, that the architect and the date are unknown, shows either laziness, ignorance, or a fear of libel-none of them qualities of which Horizon should be

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As for the "Group of 1870 Buildings, Maryport," they are certainly dilapidated, but they are not disordered or malformed, any more, if the sashwindows are any guide, than they are 1870. There are, admittedly, few visual virtues in the Prince of Wales Hotel extension, but whether the PLA Building (wrongly attributed to Sir "Edward" Cooper) is ugly or merely boring is a very open question.

It may be argued that there is no such thing as an ugly building—just as there is no such thing as an ugly colour. It all depends on where and how it is placed. But most people would agree that there are buildings—perhaps a reader would like to suggest one or two?—whose appearance is so actively offensive to the eye that they can genuinely be called ugly. The readers of *Horizon* do not seem to have found such buildings, nor would it appear that the editors of *Horizon* would recognize them if they were found.

No, Mr. Connolly, back to the brooding, to the bathtub and to the Biro, and try again. Bridge and collecting antiques may turn to dust and ashes in the unquiet grave, but it's really quite interesting to get things right as well as written.

BITTER COMMENT

Young married woman, on reading pronouncement by Sir Thomas Bennett that women like house-work: "Sir Thomas Bennett? Who is he? He sounds as though he must be an architect."

ASTRAGAL











Winners in Horizon's Ugly Buildings Competition. Top left, first prize, unoccupied villa in Luxemburg. Above, Lawn Road flats Hampstead, shares second prize with a group of buildings at Maryport, West Cumberland. Left, runners up—extension to Prince of Wales Hotel, Southport and Port of London Authority building. See Astragal's comment.



LETTERS

Allen Foxley, M.A., F.R.I.B.A.

J. W. Poltock, A.R.I.B.A., Ex-Major R.E.

L. B. H. Cremer, A.R.I.B.A., Ex-M.F.W., and Capt. R.E.

G. E. Soulsby, Ex-M.F.W., and Capt. Royal Pioneer Corps.

Eric R. Lloyd, Ex-R.E.

L. B. Myers, Ex-R.A.F.

E. R. Lloyd, Ex-Lt. R.E.

C. Birdwood Willcocks, F.R.I.B.A., A.M.T.P.I.

Rat Trap Bond

SIR,—Forty years ago I built two small four-bedroom houses in the home counties in "rat-trap" bond, using Arlesey bricks in cement mortar, and finishing outside in cement rough-cast.

They are still standing, as good as ever; but I did not repeat the experiment, as the builder, a first-rate man, told me that he found the saving in bricks was set off by the extra labour involved.

I have seen cottages in Hertfordshire and Berkshire built in this bond perhaps as much as a century ago, still in good condition.

Maidenhead

ALAN FOXLEY

Registration

SIR,—At the risk of prolonging this correspondence, we should like to express our support of Mr. D. J. Robinson's letter, In doing so we express our disagreement with

ex-Major J. Smith when he argues that service experience should be taken into consideration for those who have been away for over five years. Service in the Forces does not qualify technically or professionally. At heart, few of us who went into the Forces (perhaps unwillingly) really regret the experiences we had, but control of a company of men in the Army does not necessarily show architectural ability. As to the hardships of study—well—one of the undersigned has been a Registered Architect since 1933, but has not qualified by examination. Since returning from the Forces in June last he has sat for the Special Final and, win or lose, he enjoyed it and the work entailed

enjoyed it and the work entailed.
No, sir, support the ABT by all means, but they have sterner battles to fight. It is annoying to some of us to find that a reserved job has benefited some people, but that was probably the "luck of the draw." so let's face the facts as they are. There is no age limit laid down for taking the RIBA final examination. The erection of Nissen huts, planning of camps, making of roads or erection of bridges whilst serving in the Royal Engineers (or any corps for that matter) was vastly different from planning and building in a post-war world where something different from man-management is required.

J. W. POLTOCK,
A.R.I.B.A., EX MAJOR R.E.
L. B. H. CREMER,
A.R.I.B.A., EX M.F.W., AND CAPT, R.E.
G. E. SOULSBY,
EX M.F.W., AND CAPT. ROYAL PIONEER CORPS.
Maidenhead

SIR,—Mr. D. J. Robinson (letters 26.12.46) appears to have put his own interpretation on our letter (11.11.46) on the subject of Registration.

The idea of our letter was not that we were expecting a degree in 'exchange for services rendered,' because that we agree, would in the long run, be detrimental both to the architectural profession and ourselves. What we aimed at pointing out was the fact that if the ARCUK can exchange Registration for seven years' practice prior to August 1938, there can surely be no difference in getting the same qualification for any period of seven years, and it is without doubt that the latter would be of great assistance to all ex-Service architectural assistants, whatever the arm of service in which they served.

It is agreed that nothing can cancel out the years lost due to war service, but surely it is not asking for the unobtainable to expect a little assistance for those ex-Service A.A's. who through financial or other reasons are unable, unlike Mr. Robinson, to resume or commence studies at a school of architecture.

We are indeed sorry to hear that Mr. Robinson finds the standard of army work so low as to be best forgotten as quickly as possible, because, to carry on using his own words, we can assure him it is not universal.

ERIC R. LLOYD, EX-R.E.
Liverpool L. B. MYERS, EX-R.A.F.

SIR,—Further to my letter on November 11 and the replies in the issues of December 12 and 19 on the subject of Registration and the effects the present regulations have on the ex-Servicemen.

May I point out that it is only by the opinion of those concerned being brought to the notice of the Architects Registration Council that there is any hope of the existing regulations being adjusted to assist the ex-Service Architectural Assistant, whose studies have, through no fault of his own, been seriously handicapped.

It is for this purpose that I should be pleased to hear from any Architectural Assistant having the same views as myself



Above and below, West Screen at Chieveley Church, Berkshire. See letter from C. Birdwood Willcocks.

on the subject. My address is 40, Pilch Lane, East Roby, near Liverpool. Liverpool ERIC R. LLOYD, EX-LT. R.E.

The City Churches

SIR,—Fortunately, as Mr. Walker states, there are still craftsmen who can carry out work which will bear comparison with that of the old masters.

The enclosed photograph (see this page) of carving on the West Screen at Chieveley Church, Berkshire, is a good example of modern work. The Screen was constructed before the war by W. Allen and Sons, of Oxford, and the carving done by members of their staff.

If, when occasion arises, architects will give carvers, mural artists and other craftsmen the opportunity of co-operating with them in their buildings, they will do much to encourage craftsmanship and bring some feeling of beauty into their work, a feeling which unfortunately, in this age of austerity, is so lacking in many modern buildings, but which is inherent in all fine architecture. Reading C. BIRDWOOD WILLCOCKS



PHYSICAL PLANNING SUPPLEMENT

MEOPHAM

A SURVEY AND PLAN BY DONALD A. SHEARS

The Greater London Plan suggested a site to the west of Meopham Village in north-west Kent, for a new satellite town limited to a population of 40,000. The suggested plan for a New Meopham, reviewed below, moves the site eastwards to include the old village as the nucleus for the new town. This plan has been prepared by Donald A. Shears as a thesis for the Diploma in Town Planning and Civic Architecture at London University, and is presented in three sections—Principles, Application and Realisation—of which the two latter, relating to Survey and a suggested plan are described in this Supplement. The proposal that a new satellite town should be developed at Meopham has been strongly opposed by the local residents. Right, a view of the Cricketers Inn facing on to Pitfield Green, which illustrates the particular character of Meopham today.



A site in the Hartley-Longfield area to the west of Meopham village in north-west Kent, was suggested for one of the new satellite towns in the Greater London Plan. The author of this suggested plan for a New Meopham, however, favours a site which includes the old village as the nucleus for the new town. Meopham is a quiet and beautiful backwater of a predominantly rural life, which has changed fundamentally very little since the days of Simon de Meopham, who was born there and became Archbishop of Canterbury in 1327.

1. SURVEY

physical features

The suggested site for the new town is situated to a great extent within the boundaries of the Parish of Meopham, on the northern slopes of the North Downs, and lying 5 miles due south of Gravesend. The district is deeply scored by dry valleys in which the chalk is exposed. The soils consist of heavy clay-with-flints, very light thin and poor chalk on the steeper slopes, and some rather better textured land in the north, where the Thanet sands have left traces of their former wider spread. The topography of the area presents many planning difficulties, but a rectangle between Nurstead in the north, Meopham Green in the south, Hartley Valley in the west, and Henley Wood in the east, was considered suitable for detailed consideration for development.

public services

m C.

The source of water supply is mainly from a boring at Cuxton, and contributes towards the supply of various undertakings in this part of Kent. The present supply could serve a small increase in population, but would be inadequate for any large scale development. There is no proper drainage system or sewage disposal plant, and the method adopted for sewage disposal is by cesspools. The existing electricity supply lines could not deal with a large new community, but an adequate supply would not present any difficulty. There is no piped supply of gas to Meopham today. There are two schools serving the village, both below the desired standard, whilst children have to go by bus to Gravesend for higher education.

social structure

The population of the parish is now 2,000 persons, 80 per cent. of whom live within the development area. It is estimated that 20-30 per cent. of the working population travel to work in London, Dartford or Gravesend. The dormitory population has not the same interest in the village as the workers who make a living in and around the community.

An analysis of the commercial structure shows that poultry and general farmers, fruit growers and nurserymen are in the majority. The social life of the village is varied and the facilities are reasonably good, but it is necessary to travel to neighbouring towns for cinema or theatre entertainment. There are adequate shopping facilities in the village to meet the daily needs, but most housewives travel to Gravesend or Dartford once a week.

communications

The main road running through Meopham is the Gravesend-Tonbridge A227, which forms a direct link between the London-Dover A2 and the A20 roads. In summer time the traffic density is increased and the amenities of the village suffer as a result; in addition the troad is at times very narrow and quite unsuitable for through traffic. The area is well served by buses to Dartford and Gravesend. Meopham is on the Gillingham and Gravesend-Swanley-London line of the Southern Railway, and the station is in the north of the area. Rail travel to London, Rochester, Chatham and Gillingham is relatively easy, but to Gravesend it is difficult. The present system of communications may be summarised as mainly sufficient for the present demands of the area.

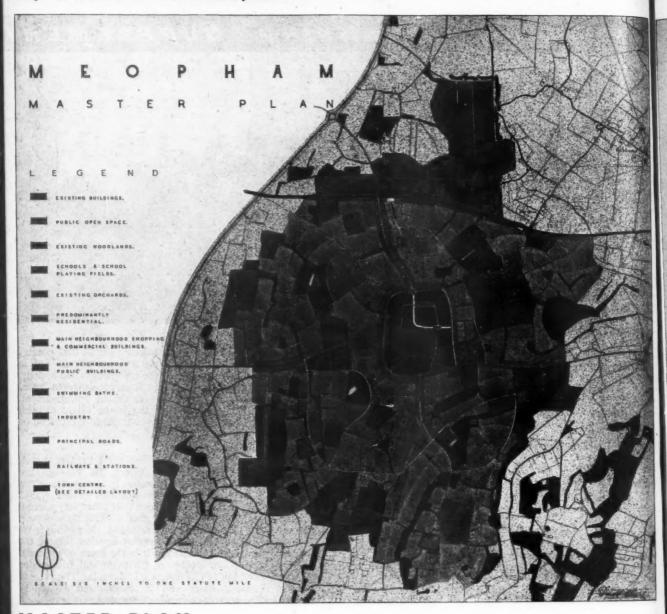
land use

The only industrial user is a small varnish factory just outside the Meopham parish boundary. There are various small local firms, closely connected with agriculture, which employ local labour. Generally speaking, agriculture is the main local occupation; the amount of arable land greatly decreased during the last century, whilst grassland increased. During the war years, the farming of the area has much improved, and is regarded as of a high value by the Ministry of Agriculture. It is considered that in the use of Meopham as a site for a satellite, agricultural considerations should not override all others; very little first class agricultural land would be affected.

The majority of housing in the area is more than 50 years old, and the general standard is good. The older property is around the Greens, the Church and the large houses, with some small modern estate development. It is recommended that some of the property should be demolished in any new plan, by reason of age or position. The remainder could be integrated with new development.

open space

Public open space, consisting of Village Greens is insufficient, although the surrounding woods and agricultural lands mitigate this deficiency at present. Much of the surrounding



MASTER PLAN

The Plan for a New Meopham, prepared by Donald A. Shears as a thesis, considers the existing Village Pattern and seeks to retain this within the urban structure of the New Town. It is considered that correct architectural treatment and landscaping will preserve the scale of the Village. Careful control would, however, be necessary to prevent the loose character of these older areas from falling into the hands of the speculator in view of increased land values. Social problems will also arise, at least for a time, between the new and old populations. Right, the small hamlet of Sole Street which lies north of the railway beyond the new urban boundary.

country has great charm; the North Downs and the large old Park for example. There are several woods within the suggested development area which, although the trees are not all particularly good specimens, should be preserved to accord with good planning principles.

2. REALISATION

The existing amenities and character of Meopham have been retained in the suggested Development Plan for a satellite town of 40,000 population. The two Greens have been left exactly as at present and the surrounding village communities integrated into the Neighbourhood Unit system.





The road system has four major local roads running from an inner ring road, and acting as boundaries of the neighbour-hood; a generous park strip is provided on either side of the carriageways. An outer ring road provides access between the neighbourhoods. A by-pass is proposed for the existing Gravesend-Tonbridge traffic which now passes through the centre of Meopham. Full use has been made of existing roads, and provision made for the junction of the by-pass with the arterial roads suggested in the Greater London Plan. Railways should be electrified and the scheme allows for adequate goods yards and industrial linkage.

The layout of the suggested Development Plan sites the Civic Centre adjacent to the Church and the Court, with four neighbourhoods (each of 10,000 population) grouped around. Within each neighbourhood, the dwellings are arranged in groups of 200 to 500, each having its own distinctive character. Adequate provision has been made for open spaces, and in the Centre, Meopham Church and Camer Court have been preserved with generous open space, to serve as an amenity in the shopping and business centre. About 200 shops are proposed in the main centre, and 50 in each neighbourhood centre with two subsidiary centres each of 6 shops.

In considering the question of industry, the Greater London Plan statement that the new town will depend to a great extent upon the Thameside area for work has been accepted.

TOWN CENTRE

The Town Centre proposals for a New Meopham will leave this part of the town isolated from the residential areas by an inner ring road and park strip. Direct through routes can, however, frequently solve the traffic problems in the medium size town without the isolating factor of a ring road. The large amount of central open space which these proposals suggest must be considered in relation to the convenience given by a closer pattern.

The industry which it is thought could flourish, is sited with reference to the climatic conditions and where existing trees and woodlands will form screens. An average of 7 acres per neighbourhood is zoned for service industries and workshops. Other aspects of planning in the Report include the question of the provisioning of adequate public services, schools, etc.

Particularly noteworthy in this suggested plan for a *New Meopham* is the recognition of the existing landscape qualities, and the modelling of the town into the landscape. Great care has been taken to preserve the existing amenities. It will be a matter of great interest to see how the compact and peaceful village scenes will fit into the New Towns schemes. There is the feeling that the village *scale* will suffer when a more urban setting is allowed to surround it.



Speeches and lectures delivered before societies as well 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 Except where inverted cover. commas are used, the reports are summaries, and not verbatim.

IAAS

January 16 at Caxton Hall, Westminster. At the Convention held in connection with the Building Science Exhibition organised by the Incor-porated Association of Architects and Surveyors and the Building Research Station. Paper on RECENT DEVELOP-MENTS IN PRECAST REINFORCED CON-CRETE BUILDINGS, by S. G. Boakes, A.M.I.STRUCT.E.

Although the im-S. G. Boakes: served to accelerate its development, the served to accelerate its development, the pre-moulding of concrete has been an accepted practice for many years. As far as records show, the first authentic work in reinforced concrete, was a small rowing boat having a 1½ in. thick cement mortar shell reinforced with wire netting. This forerunner to the "D" Day invasion barges was exhibited at the World's Fair in Paris in 1865 by its constructor, M. Lambet. Many of the concrete products with which we are familiar to-day—pipes, wall which we are familiar to-day—pipes, wall blocks, floor beams, lintels and sleepers, for example, were being produced at the beginning of this century.

Several attempts were made to introduce precast reinforced concrete construction for precast reinforced concrete construction for buildings and other structures between 1900 to 1914. A number of systems were patented and developed, but it was not until the 1914 war that this form of construction was used to any real extent, when all types of buildings ranging from army huts to factories were erected. Such designs tended to follow the same layout and shape as normal framed buildings and, in general, reinforced concrete members were used merely as a substitute for steel and little merely as a substitute for steel and little or no attempt to depart from the accepted practice is evident. This may be due to some extent to the lower permitted working stresses, and the fact that concrete was not

as confidently used or developed as it is

Immediately following the first World War, many systems of house construction were evolved; some consisting entirely of precast concrete, others a combination of in situ and precast construction. A number of these early concrete houses are described in Post War Building Studies No. 1—issued by HM Stationery Office.

The advent of the second World War made it essential once more to make the fullest

use of available materials, and thus engineers, constructional firms and associations directed their attention to the design of precast frames, not only for army huts, hostels and agricultural buildings, but for fac-tories involving larger spans. The Ministry tories involving larger spans. The Ministry of Works standard frames of 18 ft. 6 in. and 24 ft. span, embodying features of proprietary designs, are, due to the very large numbers that have been used for army huts and hostels, the best known example of the

precast concrete frame.

It is in the sphere of large span open frames that progress has been so marked—spans up to 75 ft, and over in one instance have been erected.

The present systems of construction for precast concrete houses can be divided generally ino three main groups: (a) pre-cast post and cladding; (b) structural cast post and cladding; (b) structural frame clothed with precast masonry units; (c) large load bearing wall units.

This excludes a fourth group employing pre-cast concrete blocks which conforms hich conforms All units are to traditional construction. factory made and thus site work is reduced to a minimum.

BEAM AND COLUMN FRAMING

Some thirty years ago a system of precast concrete framing was devised for the construction of buildings of one or more storeys, pit head gears, crane gantries and similar structures. In order to retain the monolithic character of concrete constructions in situ joints were formed between the columns, beams and slab units. Although this method of concrete construction has obvious advantages over in situ work not only as regards saving of time and labour and erecting formwork, it has not been used as extensively as might be expected.

The factory erected by Messrs. Orlit at their works at Colnbrook utilizes standard units adapted to suit a particular require-Some thirty years ago a system of precast

units adapted to suit a particular require-ment. The shop is 48 ft. wide divided into two equal bays by a central row of columns spaced at 18 ft. centres longitudinally. The columns are standard units increased in columns are standard units increased in length to give a 14 ft. headroom. The outer columns are 8 in. × 6½ in. with a single cantilever head, and the inner columns 9 in. × 6½ in. with a double cantilever head. Both the main and secondary beams are of standard I section. The main beams are 15 in. deep by 6½ in. wide by 24 ft. long, and are cast with the stirrups projecting above the top flange. The secondary long, and are east with the stirrups projecting above the top flange. The secondary beams are 12 in. deep, 5 in. wide and 18 ft. long, and are spaced at 6 ft. centres resting on the top flange of the main beam. The 12 in. space above the main beams is filled in with in situ concrete which, being connected by reinforcement projecting from the main beams, increases the section of the This concrete is placed between precast vertical slabs forming a permanent shuttering. Precast channel units 2½ in. deep overall and spanning 6 ft. are used for the roof.

Recently a building was reconstructed with the Lambda system of construction, which consists of precast concrete columns cast with brackets at the head, beams and floor with brackets at the head, beams and floor units. The joint between the beam and column is made along the beam span about the points of contraflexure. The columns and beams were cast on the site by the contractors, but the floor units, which act as permanent shuttering, were made in a products works. The joints between the

columns are by means of steel dowels which are grouted through holes left in the columns. The beam units span between the points of contraflexure and are connected to the column cross head by bolted scarfed

Reinforcement is left projecting from the columns and also from the beams in order that monolithic construction may be obtained when the floor concrete is laid.

OPEN SPAN FRAMING
This type of framing designed essentially for single storey buildings, marks one of the most successful developments in precast reinforced concrete construction, and is a radical departure from the early application of precasting concrete. Although open span framing was designed to meet the demands of war time building, it has by its own merits become an established method of construc-Moreover, it takes full advantage of the fact that concrete can be moulded to any desired shape, and thus the section of the members is varied to suit the design conditions.

Frames may be symmetrical or unsymmetrical as in the case of a north light roof. Provision can be made for crane loads, overhead services or any special reloads, overnead services or any special re-quirement to suit the occupancy of the building or factory. Flexibility is not sacrificed to standardization, which is no degree greater than the economical design of structural frames in other materials. The steel or timber moulds used for the units, particularly those with solid spandrels can easily be adapted for the casting of different sized units.

different sized units.

Such frames may be designed as completely rigid frames, three-hinged frames or a combination of these two conditions.

Clear spans up to a maximum of 100 ft. have been constructed with this framing. have been constructed with this framing, but the economical limit lies between 60 to 75 ft., with a maximum height to eaves of 20 to 25 ft. The smaller span frames, say up to about 35 ft., are usually made at a works and designed with a rigid bolted connection between the leg and the rafter, in order to facilitate transport from the works and erection. The units for larger spans are cast on the

The units for larger spans are cast on the site. Various types of frames have been designed, and although all similar in character, vary in detail as regards the joints and fixing of the purlins and the shape of

the spandrel.

The size of the unit is based on the critical sections for shear which normally occurs at the bottom of the leg and in the rafter at the bottom of the leg and in the rafter at the end of the corner splay. The critical section for bending is generally in the leg at the commencement of the splay junction with the rafter. On multi-bay structures where uplift occurs the leg is designed to take tension and is secured to the foundation by means of two steel plates having a horizontal pin passing through the plates and the bottom of the leg.

With multi-bay structures each bay can

With multi-bay structures each bay can be analysed separately, and the bending moment diagrams superimposed. With the smaller span frames such as those used for agricultural buildings, it is the practice to embed the legs in the foundation. This simplifies erection and provides a little

simplifies erection and provides a little more lateral support.

While the spacing of the posts is standardized, the width of openings is not restricted. Wide openings can be formed by introducing lintols and, where required, canopies can be cantilevered from the post.

CONCLUSIONS

In general, the advantages of precasting may be briefly summarized as follows:—

(a) Economy in shuttering: The same mould or framework may be used for a large number of units. Although this applies in theory equally well to in situ concrete, the risk of damage to the moulds is very much less. Moreover, as the units are cast on the ground the moulds may be removed in a very much shorter time, and removed in a very much shorter time, and

as many as three or more uses a day may be attained.

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ay be e, and (b) Greater control can be exercised over the quality of the concrete: This applies particularly to units made in an established factory, where the batching of materials is generally more accurately performed. Whether the units are cast on the site or in whether the units are cast of the site of a factory, the concrete, particularly in the case of vertical members which are cast on the ground, can be properly compacted and mechanical vibration more efficiently applied.

applied.

(c) Reinforcement: This is placed more accurately and the risk of bars being displaced during placing is reduced to a minimum. The chief advantage of units cast in a factory is that stocking of materials on site is avoided, and work may proceed in all weathers, a particular advantage in view of the weather we have experienced this year. Whether a casting shop is set up on the site depends largely on the magnitude of the work and the supplies of suitable aggregate.

The question as to whether one precasts

The question as to whether one precasts on the site or in a factory is usually governed by the size of the unit. Transport considerations govern this factor. The chief advantage of casting on the site is that the risk of damage is reduced by the less handling of the units, and transport is saved, particularly where cement and aggre-

gates can be obtained locally.

It, therefore, appears that the ideal system of precast concrete construction as applied to building is one which combines factory made as well as site made units. It is made as well as site made units. It is generally more convenient to obtain lintols, floor slabs and other similar units from a factory than to manufacture on the site, which would tend to require the setting up of a products works, the cost of which, *i.e.*, overhead charges and maintenance, would more than offset any saving that might be achieved by doing the work oneself.

RIBA

Prizes 1947

At a General Meeting of the Royal Institute of British Architects, held on January 14, the Council's Deed of Award giving the results of the com-petitions for the Annual Prizes and Studentships awarded by the RIBA was read, and a criticism of the work submitted was given by Anthony Minoprio, M.A., F.R.I.B.A. There were in all 287 competitors. The total value of the Prizes and Scholarships offered by the RIBA is over £3,000 a year. The results of the various competitions are as follows: -

THE TITE PRIZE: A CERTIFICATE AND £35 FOR THE STUDY OF ITALIAN ARCHITECTURE.—The subject set for this year was A Monastery. The Prize was awarded to POOK, Miss Esmée Mabel Struan Cousin (Student, RIBA), Kinnoul, Kilmacolm, Renfrewshire (Glasgow School of Architecture). A Certificate of Honourable Mention was awarded to CIRO, Edmund Charles Tory, 18, Osberton Road, Oxford (Department of Architecture, City of Oxford School of Art and Crafts).

Oxford School of Art and Crafts).

THE VICTORY SCHOLARSHIP AND £120 FOR THE ADVANCEMENT OF PROFESSIONAL EDUCATION. — The subject set this year was A National Theatre. Awarded to VINCIT, Frank Booth, DIP. ARCH. (Leeds), A.M.T.P.I., A.R.I.B.A., 1, Hollin Lane, Headingley, Leeds, 6 (Leeds School of Architecture). A Certificate of Honourable Mention was awarded to SHENAN-DOAH, Richard Walter Leggatt, M.C., A.R.I.B.A., c/o D. A. Wilkie, F.R.I.B.A.,

45, Chancery Lane, W.C.2 (Dept. of Architecture, Southern College of Art, Ports-

THE RIBA SILVER MEDAL FOR MEASURED DRAWINGS AND £75.— Awarded to WRENPHAN, Fred Potter, A.R.I.B.A., "Broadlands," Middleton Road, Bromsgrove (Birmingham School of Architecture and School of Architecture, The Polytechnic, Regent Street, London). A Certificate of Horsumble Marting was awarded. tificate of Honourable Mention was awarded to ARC, Colin Fleetwood Walker (Student, RIBA), 91, Hagley Road, Edgbaston, Bir-mingham, 16 (Birmingham School of Architecture).

THE ROYAL INSTITUTE SILVER MEDAL AND £50 FOR AN ESSAY.—Awarded to PENTALPHA, Gavin Walkley, M.A., M.LITT.(CANTAB), B.E. (ADELAIDE), A.R.I.B.A., 150, Alexandra Avenue, Toorak Gardens, South Australia (School of Architecture, The University, Adelaide, and Cambridge University School of Architecture), for an Essay entitled William Wilkins, R.A.

THE BANISTER FLETCHER SILVER MEDAL AND £26 5s. 0d. FOR THE STUDY OF HISTORY OF ARCHITECTURE.—The subject set for this year's competition was Terrace and Square in the English Tradition. Awarded to MR. WHELKS, Miss Ruth Pocock (Student, RIBA), 37, Doughty Street, London, W.C.1 (Bartlett School of Architecture, University of London). of London).

THE ALFRED BOSSOM RESEARCH FELLOWSHIPS £200: FOR POST GRADUATE RESEARCH.—Awarded to David William du R. Aberdeen, B.A.(ARCH.), F.R.I.B.A., 18. Upper Grosvenor Street, Lon-don, W.1 (Bartlett School of Architecture, University of London).

THE NEALE BURSARY: £100 FOR THE MEASUREMENT OF OLD BUILD-INGS.—Awarded to Maurice Ewan Taylor, M.T.P.I., A.R.I.B.A., 10, Howard Place, St. Andrews, Fife (School of Architecture, The Polytechnic, Regent Street, London).

THE HUNT BURSARY: £75 FOR THE ENCOURAGEMENT OF THE STUDY OF HOUSING AND TOWN PLANNING.
—Awarded to Arthur Neville Ward, B.ARCH. (HONS.) (LIVERPOOL), A.R.I.B.A., 83, Harcourt Terrace, London, S.W.10 (Liverpool School of Architecture, University of Liverpool).

THE ATHENS BURSARY: £125 FOR STUDY AT THE BRITISH SCHOOL AT ATHENS.—Awarded to Wallace Padfield Hunt, A.M.T.P.I., A.R.I.B.A., Donner House, Oak Drive, Fallowfield, Manchester, 14 (School of Architecture, University of Manchester) chester).

THE ASHPITEL PRIZE, 1946.-This is a Prize of Books, value £20, awarded to the candidate who, taking the Final Examination to qualify as an Associate, shall most highly distinguish himself among the candidates in the Final Examinations of the year. Awarded to (name to be announced later)

THE RIBA SILVER MEDAL AND £5 IN BOOKS FOR STUDENTS OF SCHOOLS OF ARCHITECTURE RECOG-NISED FOR EXEMPTION FROM THE FINAL EXAMINATION.—Awarded to Henry Sinclair Wood (Student, RIBA), School of Architecture, Edinburgh College of Art, Lauriston Place, Edinburgh (School of Architecture, Edinburgh College of Art).

THE RIBA BRONZE MEDAL AND £5
IN BOOKS FOR STUDENTS OF
SCHOOLS OF ARCHITECTURE RECOGNISED FOR EXEMPTION FROM THE
INTERMEDIATE EXAMINATION.—
Awarded to Ian Scott Melville (Student,
PURA) Strathdorn Heswall Avenue Beh RIBA), Strathdoon, Heswall Avenue, Bebington, Cheshire (Liverpool School of Architecture, University of Liverpool).

THE ARCHIBALD DAWNAY SCHOLAR-SHIPS: OF THE VALUE OF £65 FOR THE ADVANCED STUDY OF CON-STRUCTION.—Awarded to David Wyndham Fletcher (Student, RIBA), 4, St. Johns Place, Whitchurch, Cardiff (Welsh School of Architecture, The Technical College,

THE RIBA HENRY JARVIS STUDENT-SHIP AT THE SCHOOL OF ARCHITEC-TURE, THE ARCHITECTURAL ASSO-CIATION: £50.—Awarded to Frank Stewart Knight (Student, RIBA), 13, Market Place, Wincanton, Somerset.

THE RIBA HOWARD COLLS TRAVELLING STUDENTSHIP AT THE ARCHITECURAL ASSOCIATION: £15 15s, 0d.—Awarded to Hugh Cameron Morris, Coldharbour, Marlow, Bucks.

THE RIBA DONALDSON MEDAL AT THE BARTLETT SCHOOL OF ARCHITECTURE, UNIVERSITY OF LONDON.

—Awarded to Gordon Eric Rothen (Student, RIBA), Manor Farm, Owlswick, Aylesbury,

THE RIBA (ANDERSON AND WEBB) SCHOLARSHIP AT THE SCHOOL OF ARCHITECTURE: CAMBRIDGE UNI-VERSITY: £65 PER ANNUM.—Awarded to G. J. Shipman, School of Architecture, Cambridge University.

THE RIBA PRIZE FOR ART SCHOOLS AND TECHNICAL INSTITUTIONS WITH FACILITIES FOR THE INSTRUCTION OF INTENDING ARCHITECTS (£5 IN BOOKS).—Prizes of £2 10s. 0d. in (£5 IN BOOKS).—Prizes of £2 10s. ud. in Books awarded to Joseph Charles Hadfield (Probationer), 5, Beech Avenue, Pendleton, Salford, 6 (School of Architecture, Manchester Municipal School of Art), and to Miss Barbara Valerie Watt (Student), 7, Hunton Bridge Hill, King's Langley, Herts. (Department of Architecture, Medway (Department of Architecture, Me School of Art and Crafts, Rochester).

THE RIBA PRIZES FOR PUBLIC AND SECONDARY SCHOOLS.—These Prizes are of a total value of £10 10s. 0d. For the competition for 1946-47 an additional prize was awarded. This prize consisted of a case of instruments which had been presented by Mr. E. M. Joseph, F.R.I.B.A. They are offered for an Essay of not more than 1,000 offered for an Essay of not more than 1,000 words or for sketches or scale drawings of a building or part of a building. The Prizes are offered for competition between boys and girls in Public and Secondary Schools. The prizes were awarded as follows: (a) Essays: (i) A Prize of £4 4s. 0d. to R. G. Harris, of Perse School, Cambridge, for his essay on King's College Chapel; (ii) A Prize of £1 1s. 0d. to Miss Rosemary I. K. Booth, of Forfar Academy, for her essay on Local Architecture. (b) Sketches: (i) The Special Prize of a case of instruments to Sydney B. Academy, for her essay on Local Architecture. (b) Sketches: (i) The Special Prize of a case of instruments to Sydney B. Downs, of the Manchester Grammar School for his drawings of Chorley Hall, Alderley Edge, Cheshire; (ii) A Prize of £2 2s. 0d. to Ian D. McIntosh, of the High School of Dundee, for his drawings of the High School of Dundee; (iii) A Prize of £2 2s. 0d. to D. G. Batchelor, of the Grammar School, Nottingham, for his drawings of Southwell Minster; (iv) A Prize of £1 1s. 0d. to D. F. Clayton, of Rugby School, for his drawings of the School House, Rugby.

The Competition drawings (with the exception of those submitted in competition for the Neale Bursary, the Alfred Bossom Research Fellowships the Hunt Bursary, and the Archibald Dawnay Scholarships), will be on Exhibition at the RIBA, 66, Portland Place, London, W., until February 12, inclusive, between the hours of 10 a.m. and 6 p.m., Saturdays 10 a.m. and 5 p.m. (Sundays 10 a.m

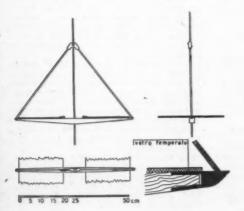
6 p.m., Saturdays 10 a.m. and 5 p.m. (Sun-

days excluded).

The President, Sir Lancelot Keay, K.B.E., will present the Medals and Prizes for 1947 and will deliver an Address to Students, at a General Meeting to be held at 66, Portland Place, London, W.1, on Tuesday, February 11 at 6 p.m. days excluded).



Left, a view of one of the sitting rooms. The bookcase has suspended shelves; a detail of the suspension is shown below.



A MILAN ARCHITECT'S

FLATS

DESIGNED BY F. ALBINI

of transforming two flats in a contemporary manner using old family furniture and ancestral portraits in such a way that they are appropriately displayed without appear-

Franco Albini set himself the aim , ing old-fashioned. How can such furniture be given the necessary space and be so placed that it does not interfere with the solution of the practical problems of a modern house?

e sitting as susil of the below.

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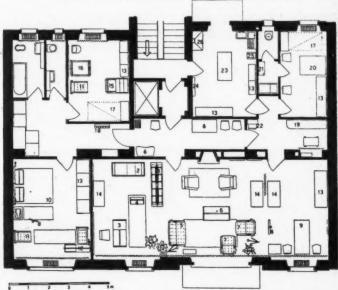
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Albini uses a white background against which the furniture, and the dark or light accents of the divans and the hangings are placed. One living room, for example, is painted entirely in white; curtains of white flaxen material cover not only the windows, but the whole wall from end to end. The harsh Italian light from the windows is softened. The floor is covered in line with a marbled pattern of red and maroon. A pastel blue flax curtain separates the living area from the dining area. Maximum unity between the various rooms has been achieved by omitting doors in the openings and using curtains of the same colour as the walls. The lighting fittings are from a standard range, painted white. In the other flat can be seen a 17th century dark walnut cupboard. Table and chairs in walnut are 18th century, the chairs being covered in suede. A rocking couch is in white and black painted iron, with long tension springs and rubber mattress covered in natural flax material. A part of the wall adjacent is painted black and here is arranged a group of old and modern paintings. The bedroom is separated from the living room by double curtains in white rubber and blue stockinette with black cords. The bed is in iron, painted white, with two central supports, covered with coarse corded cotton of a dull red colour. The pillows are fine pale blue linen.

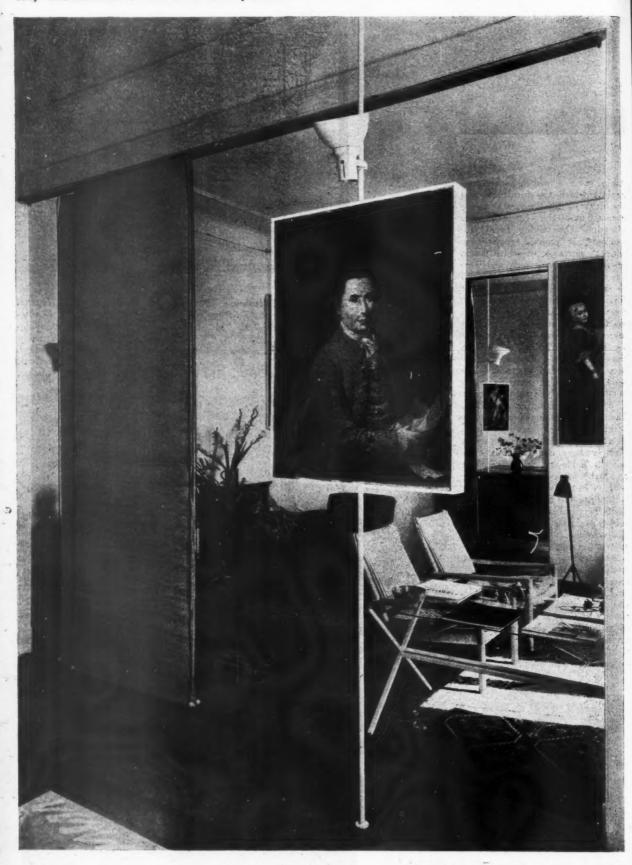
Above, child's bedroom in the flat whose plan appears on the right; the cot is in natural chestnut with movable sides; on the right is a folding bed. Right, two views of the flat, the plan of which is not shown. This contains the same furniture as the flat illustrated on the previous page and above. The arm chairs are in natural sandpapered chestnut, with straw backs and hemp cushions striped red and white. The old chests in the lower photograph are of inlaid Maggiolino work



Key to plan: 1. Bookcase. 2. Couch. 3. Writing desk. 4. Journal rack; 5. Sofa. 6. Table. 7. Easy-chair. 8. Picture. 9. Diningtable. 10. Double-bed. 11. Arm-chair (on castors). 12. Dressingtable. 13. Cupboard. 14. Chest-of-drawers. 15. Cot. 16. Nursery chest. 17. Folding-bed. 18. Coat-rack. 19. Linen cupboard. 20. Ironing-table. 21. Soiled linen cupboard. 22. Telephone. 23. Kitchen table. 24. Meters. 25. Refrigerator. 26 Cooker,







A MILAN ARCHITECT'S FLATS

Living room in the flat, whose plan is not shown, looking towards the bedroom; on the left are movable curtains of straw-coloured fabric drawn over rods running between metal guides.

This newly arranged Technical Section will now draw together in a comprehensive whole all the technical material in the Journal. It will cover Information Centre, Questions and Answers, Current Technique, The Industry, Prices, special technical articles and so on, and will, from time to time, contain editorial notes on technical trends and developments.

TECHNICAL SECTION

The Architects' Journal

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CLASSIFICATION FOR INFORMATION CENTRE

1	SOCIOLOGY Human needs, family structure, population statistics, social relationables	15	MATERIALS: APPLIED FINISHES & TREATMENTS Paints, stains, plasters and renderings
2	PLANNING: GENERAL History and evolution, legislation, administration, survey technique, comprehensive publications	16	MATERIALS: MISCELLANEOUS Glass, bitumen, plastics, fibreboards, plaster, stone
3	PLANNING: REGIONAL & NATIONAL Re-planning and new planning, surveys, planning schemes	17	CONSTRUCTION: GENERAL Comprehensive publications, general data, legislation
4	PLANNING: URBAN & RURAL Re-planning and new planning, surveys, planning schemes, site planning, zoning	18	CONSTRUCTION: THEORY Statics, principles of design, general design data
5	PLANNING: PUBLIC UTILITIES Transport, power, water supply, main drainage, retail and other distributive services	19	CONSTRUCTION: DETAILS Foundations, floors, walls, roofs
6	PLANNING: SOCIAL & RECREATIONAL Health education and other community services, recreation,	20	CONSTRUCTION: COMPLETE STRUCTURES Buildings, bridges, reservoirs
7	preservation of amenities PRACTICE Professional practice, office management and organization, model	21	CONSTRUCTION: MISCELLANEOUS Demolition, shoring and underpinning, contractors' work
8	SURVEYING & SPECIFICATION	22	SOUND INSULATION & ACOUSTICS Physiological data, general design
	Land surveying, quantity surveying, estimating costs, specification notes	23	HEATING & VENTILATION Physiological data, services, fittings and equipment
9	DESIGN: GENERAL Architectural design generally, design data, comprehensive publications	24	LIGHTING Physiological data, natural and artificial, fittings and equipment
0	DESIGN: BUILDING TYPES Administrative, industrial, domestic, commercial	25	WATER SUPPLY & SANITATION
1	MATERIALS: GENERAL Comprehensive publications, comparative data, legislation		Fittings and equipment, plumbing and water heating, drainage, minor sewage disposal, hygiene
2	(This section includes products) MATERIALS: METAL	26	SERVICES & EQUIPMENT: MISCELLANEOUS Cooking, ltfts, escalators, telephones
_	(Including products)	27	FURNITURE & FITTINGS
3	MATERIALS: TIMBER (Including products)		Furniture, soft furnishings and fittings such as boits, curtain rails.
4	MATERIALS : CONCRETE	28	MISCELLANEOUS

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Editors welcome information on all developments from any source.

INFORMATION CENTRE

5.1 planning: public utilities

ROADS AND TRAFFIC PROBLEMS

Roads and Traffic Problems. E. L. Leeming. (Journal of the Royal Sanitary Institute, Vol. LXVI, No. 4, August, 1946, pp. 428-437.)

Paper delivered at Health Congress, Blackpool, June 3-7, 1946. Survey of some broad principles and suggestions dealing with question of road safety in relation to road

Indication of main points of Interim Report, December, 1944, issued by Com-mittee on Road Safety, and of Ministry of Transport Report, 1946, on Design and Lay-out of Roads in Built-Up Areas. Effect of overspill and dispersal of industry on traffic. Public service vehicles versus private cars.

Question of local or national taxation on public transport. Economy in running of commercial vehicles. Engineer's contribution to practical town planning schemes.

Traffic signals and road safety. Super-elevation is construction of new roads to avoid tion in construction of new roads to avoid accidents. Design of traffic circles. Plea to accidents. Design of traffic circles. Plea to construct motorways. Segregation of various classes of traffic. Case for international highways. Creation of network of special cycle roads throughout country. Trunk Roads Act and construction of cycle roads and footpaths. Use of speed limit. Summary of aspects affecting safety of different classes of road users, and conclusions to be drawn from them. Illustrations.

6.1 planning: social and recreational FORM AND COLOUR IN LANDSCAPE

Form and Colour in Landscape. W. L. Irvine. (Journal of the Royal Sanitary Institute, Vol LXVI, No. 4, August, 1946, pp 396-401.)

Paper delivered at Health Congress, Blackpool, June 3-7, 1946. Plea to recognize existence and art of landscape architecture. Discussion of suitable landscape treatment for industrial sites, playgrounds and public buildings. Knowledge of available plant material and indication of appropriate varie-

13.2 materials: timber INFORMATION LEAFLETS

Timber. Timber Development Informa-tion Leaflets Nos. 21 to 24). (Timber De-velopment Association, Ltd., 1946.)

Information about T.D.A. headquarters and branch libraries. Classified and selected list of books on timber. 22—The Structure of a Softwood and 23—The Structure of a Hardwood. Reprints of short notes Nos. 209 and 210 issued by the Forest Products Laboratory, Madison, USA. 24-Wood Waste Magic. O. A. Fitzgerald. Method of converting wood waste and other fibrous agricultural waste products into fuel logs. Reprint of article from the American Forests.

17.1 construction: general FIRE PROTECTION DATA

Fire Protection Year Book, 1946-47. (Lomax Erskine and Co., Ltd. 7s. 6d.)

Usual trade directory type information. Provides easy reference to B.S., Acts of Parliament and other information relating to Fire Risks in Buildings.

20.1 construction : complete structures

FACTORY FOR PREFABRICATED UNITS

A Foamslag Prefabricating Factory at Glasgow. (The Builder, September 6, 1946, pp. 244-8.)

Buildings and equipment of the factory of Glasgow Corporation manufacturing large precast wall units in foamed slag concrete. (See No. 1.635:19.10.44.)

23.3 heating and ventilation SMALL HOUSE HEATING

Domestic Heating in America. Ministry of Fuel and Power and Department of Scientific and Industrial Research. (H.M. Stationery Office, 1946. 3s. 0d.)

Report of visit to USA and Canada to study heating of small houses. Comprehensive description of conditions of climate and fuel supply, heating methods except District Heating. Includes sections on associated factors such as house plan related to heating, chimney construction, atmospheric pollution. Considerable detailed technical information, statistics, and bibliography. 150 pages, 23 table, 16 figures.

This report gives the results of a joint mission sent from the Ministry of Fuel and Power and the Department of Scientific and Industrial Research to study small house heating in U.S.A. and Canada except for District Heating methods. It includes many detailed statistics in addition to its general descriptive matter.

The general story can be obtained from Chapters 1 and 14. The first chapter gives a picture of the background conditions of climate and fuel supply and then describes methods of heating in common use, types of appliance, and also gives an outline of the position on research work, testing and standardisation. Chapter 14 summarises the conclusions and makes certain recommenda-

The other chapters deal in more detail with individual aspects of the subject. Of these, several are particularly interesting to architects. Chapter 3 which discusses the re-lationship of heating to house planning, raises important issues which need special consideration in this country in view of our

changing ideas on heat standards for small houses, and chapters 11 and 12, dealing respectively with heat insulation and chimneys will be found interesting.

It is clear that American methods are much

more efficient than our own in terms of heat received against units of fuel used. Apparently, warm air heating and warm water radiators are the two methods preferred, used with a definite tendency towards forced circulation in the case of warm air heating when price permits. Full house heating by a continuous burning appliance is taken for granted in any new house, and attention is therefore now being concentrated more and more upon comfort and convenience rather than the mere supply of warmth.

The descriptions of new ideas of an ex-

The descriptions of new lucas of perimental nature are stimulating and some perimental nature are stimulating. Warm air of these seem worth watching. Warm air panel heating seems particularly attractive. One of the chief recommendations made is that a number of American systems should be tried out on a large scale in this country and it is to be hoped that energetic official action will follow.

There are six appendices. No. 1 gives some technical details of research methods seen in use. No. 2 gives comparative figures for hot water use by families paying a fixed hot water use by families paying a fixed lump sum for unlimited supplies as against those paying normally. These figures should be studied by all interested in hot water supply to flats or communal supplies to houses. Appendix 3 includes some brief notes on appliances outside the main scope of the enquiry, e.g., refrigeration, laundry, dish washing, mixing machines and germicidal lamps. Appendices 4, 5 and 6 give a record of places visited and people seen, statistical tables and a list of books, reports statistical tables and a list of books, reports and pamphlets.

The Report is a valuable study of condi-tions and methods. It should stimulate a good deal of thought.

24.5 lighting COLOUR

Paint as an Output Stimulant. J. D. Spooner. (Paint, Oct., 1945, p. 280.)

Colour association, standardisation, industrial applications of colour and examples. Interesting. No illustrations,

The article brings together some interesting information, but not in a way which gives direct guidance.

To many readers the most interesting part will be the summary of psychological studies on colour association. These were made by statistical methods, but no results of direct interest in building design are quoted. One or two isolated points about visibility (physiological) are noted.

References to reflection factors and standardisation are brief, and again related more

to paint manufacture than use.

A description is given of the Du Pont colour technique, based on the use of three standard tones, a pale grey, a light buffcream and a light green.

Some colour schemes are described, based on notes by the Industrial Welfare Society. The industrial types concerned are weaving sheds, laundries, textile mills, engineering works, a railway depot, and shop manufacturing works.

24.6 lighting SCHOOLROOM LIGHTING

Brightness Control in a Model Schoolroom. W. Allphin. (Illuminating Engineering USA, January, 1946, p 21.)

Experimental treatment of an existing classroom to improve day and artificial lighting. Sensible and helpful note. illustrations and diagrams.



I.C.I. HOUSE & THAMES HOUSE

Thames House and Imperial Chemical House show their strong character even from this unusual viewpoint: they are two of London's most important buildings and contain 18,000 tons of Dorman Long steelwork.

New Lambeth bridge, also shown, was built by Dorman Long; the five spans are of true arch construction, with heavy multiple steel ribs.

DORMAN LONG & CO. LIMITED, MIDDLESBROUGH London Office: Terminal House, 52, Grosvenor Gardens, S.W.I

STEELWORK BY



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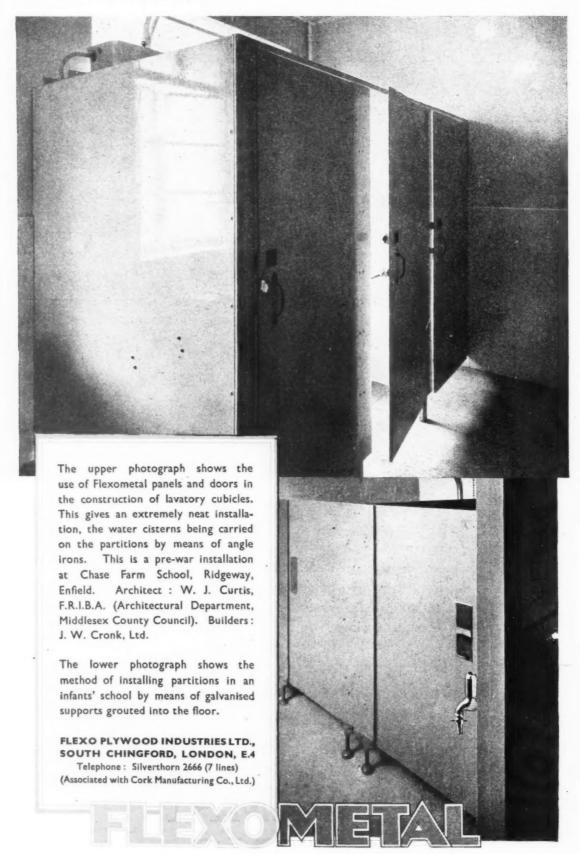
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DORMAN LONG







The classroom as it stood was of normal height and size with windows on one side.

The decoration was amended using generally warm colours with high reflection factors. A list of the latter is given, including the ceiling at 82 per cent., upper walls at 68 per cent., chalkboard and blackboards at 55-62 per cent., desks at 30 per cent. and floor (light grey asphalt tiles) at 34 per cent.

Light fittings were changed to fluorescent, screened to allow more light to go forward than backward. Intensity readings finally ranged from 25-5 foot candles on the desks. The row of lights farthest from the windows was separately switched and operated by a pupil when indicated by a meter at his

desk.

After consideration of previous work, the upper three-quarters of windows was screened by vertical louvre screens, with the louvres at right angles to the glass. They were made of steel, and spaced 3½ in apart. On a bright, overcast day, intensity readings were from 40-75 foot candles. A particular point was that with the louvres the intensity reduction near the windows was much greater than at the rear of the

confirmation is interesting.

Further measurements indicate that, compared with former conditions, brightness differences in the room have been greatly reduced, and there seems no doubt from the illustrations that the treatment is un-

latter, in fact, was hardly

This is to be expected, but the

usually successful.

The Report is drafted with moderation and is a useful addition to school lighting studies.

24.7 lighting GERMICIDAL LAMPS

room; the

Transmittance and Reflectance of Germicidal (λ 2537) Energy. M. Luckiesh and A. H. Taylor. (J. Optical Soc. Amer., April, 1946, p. 227.)

Paper containing detailed experimental measurements. 10 graphs.

This paper describes experimental work bearing on the control of germicidal energy from artificial sources. Architects would find the paper too detailed for general interest, but it contains some information of much importance. It is now well known that artificial ultra-violet sources may play an important part in the design of such places as schools, hospitals, auditoria, and other buildings where it is particularly desired to avoid cross-infection. The lamps themselves are powerful and can cause erythema and conjunctivitis. They are therefore generally placed so as to irradiate the upper air in a room, reliance being placed upon air currents to bring bacteria within the range. In this way the occupants of the room avoid direct irradiation. It would be possible, however, for reflected radiation from wall and ceiling to do harm, and the interest of this paper so far as architects are concerned, will focus upon the reflection measurements of various types of surface. Most paints prove to have values of only 4-6 per cent., which is apparently harmless. Water soluble paints (distemper) on the other hand have values up to about 35 per cent., and bare plaster up to 60 per cent. Such values are regarded as too high for safety. Wallpapers have a high reflectance also. It is clear, therefore, that the use of these lamps will have to be associated with the proper selection of surface finishes.

Studies of reflectances of metal are also described. They bear chiefly on the manufacture of reflectors for the lamps themselves and require no summary here, except perhaps to say that aluminium is strongly tavoured because its reflectance can be varied as required by special processing.

25.4 water supply and sanitation

DRAINAGE, DETAILS

Detailing a Sewerage Scheme. L. B. Escritt. (The Surveyor, August 9, 1946. Vol. CV., p. 615.)

Comments on details of design and construction of soil and surface water sewers. Stoneware versus cast-iron pipes. Ventilation, flushing arrangements. Sizes of manholes, design of benchings and channels. Materials for manhole walls, rule for increase of thickness with depth below ground. Back-drop manholes. Manhole covers, ladders and step-irons. Practical and informative approach to subject, detailing best modern practice.

25.5 water supply and sanitation

USA STANDARDS FOR WATER SUPPLY

Revised United States Drinking Water Standards. (The Surveyor, August 23, 1946. Vol CV., p. 659,)

Full text, with comment, of new code adopted by US Public Health Service. Intended as single standard for water quality applicable to all public water supplies in USA. New code not radically different from that adopted in 1942, but wording and specification clarified. Standard practice for method and frequency of sampling laid down. Bacterial, physical and chemical standards demanded are exacting, and in some respects much more so than those usually considered adequate in this country. The code is endorsed by the American Waterworks Association.

25.6 water supply and sanitation PRESSED STEEL GUTTERS

Pressed Steel Gutters, Pipes, Fittings and Accessories. B.S.S., 1091-1946. British Standards Institution, 1946. 2s.

Revision of 1942 Standard. Covers material. workmanship, finishes, dimensions of light pressed-steel galvanized rainwater gutters, pipes, fittings and accessories, and heavy pressed steel gutters. Diagrams and tables give sections and dimensions of O.G. and half-round gutters; O.G. and half-round outlets, square angles, obtuse angles, stop ends: mild steel fascia and rafter brackets for half-round gutters, mild steel rainwater pipes and fittings: boundary wall, valley and box gutters, and pressed, strapped and welded joints for these gutters.

27.1 furniture and fittings BUILDERS' HARDWARE

Builders Hardware for Housing. B.S.S. 1,331:1946. (British Standards Institution. 2s. 0d.)

Schedule of hardware for housing. Illustration of each item: name and description: material used: minimum dimensions: minimum weight: gauge of screw required. Items covered include equipment for doors, gates, wooden windows, fanlights, cupboards, drawers, and stairs. Sketches show type of fitting (detail of design may be altered.) Minimum weights and screw sizes are not given for plastic fittings, but screws are normally supplied with these.

27.2 furniture and fittings: SCHOOL FURNITURE

School Furniture and Equipment. Post-War Building Studies No. 24. (H.M. Stationery Office. 6d, net.)

Mainly recommendation for standard dimensions of school furniture which will be worked out in detail and published as B.S.s. Leaves ample scope for variation in design. Illustrated by line diagrams.

This report, prepared by a sub-committee of the Standards Committee of the Ministry of Works gives only an outline of the findings of the Committee. The full recommendations have been passed to BSI for the preparation of standards. The Committee classifies its recommendations thus:

1. Articles on which there is general agreement that standardisation will be valuable.

2. Articles not peculiar to schools which may be ordered in the open market or from standards prepared for general purposes.

3. Articles are housing with analysis of the second se

standards prepared for general purposes
3. Articles not having wide application and which would therefore be better if specially designed for individual schemes.
4. Items which should not at present be

4. Items which should not at present be standardised.

The recommendations given are most carefully set out in such a way as to permit the use of various materials and designs, the object of the Committee being to give only those requirements essential for efficiency and economy.

Pending the publication of the full specifications by the BSI, this report will give architects and manufacturers useful guidance, although, in a few cases, the extremely brief form of the recommendations leaves the reader wishing that reasons for a particular choice could have been included.

The care with which the recommendations have been framed can be judged from the appendix, which describes the investigations made in order to arrive at recommendations for size and shape of school chairs, although it is disturbing to fail to find a reference to the relationship of these chairs to the desks with which they will be used.

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

QUESTIONS AND ANSWERS

2881 DAMAGE FROM TREES

Q The roots of a tree growing in the Public footway have damaged a water pipe inside the boundary wall of private property. The Local Authority is denying responsibility and I am curious to know if there is any precedent for this. The cost of repairs does not merit consulting Counsel, but a principle is involved which must have been experienced by other architects.

A You should approach your Local Authority again and point out to them that the responsibility is theirs if the roots of a tree grown by them encroach on to adjoining property causing damage. You state in your letter that the cost of repairs does not merit consulting Counsel, which we appreciate, but the position is that similar damage may be caused at a later date by other roots of the tree. We suggest that you do not pay the cost of repairs as by doing so you will be assuming liability.



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Our contributor, Ian Bowen, is writing a series of topical articles, in place of his former commentaries on statistics. His first article deals with the recently published report on Housing Expenditure (the fifth report of the Select Committee on Estimates, HMSO, 5/11/46).

GOVERNMENT and HOUSING

by Ian Bowen

What is wrong with the building industry? That is a question often asked in (among other places) Government circles. What is wrong with the Government controls? That is a question arising very pointedly, in, among other places, the building industry. The Select Committee's report, and still

The Select Committee's report, and still more the material somewhat haphazardly scattered through its many columns of evidence throws light on both questions. In the main, its terms of reference, and its recommendations, relate to Governmental organisation and expenditure. The evidence, however, ranges over such topics as the craftsman's attitude to prefabrication, and welfare conditions in the building materials' industries and this evidence is still a partially quarried mine of information, which the Committee itself seemed not wholly capable of exploiting. The evidence provides sidelights on the industry as well as direct, and hitherto unpublished, data on the Government machine.

It would, indeed, be almost fair to describe this document as News from Olympus. The respective functions of the Ministries of Health, Works and Supply are clearly defined in a joint memorandum; in the evidence, many of the shadowy people, who speak to ordinary mortals most commonly in the language of Statutory Rules and Orders, appear in the guise of men with practical problems on their hands. And this brief human glimpse of the civil servant may touch the tender heart concealed beneath the contractor's contract.

ADMINISTRATIVE COSTS

What did the Select Committee make of their revealing opportunity? They discovered, in their straightforward fashion, the cost of Administration in £ s. d.: it is 3½ millions for the current year. This is the cost of control, administration and advice, excluding the cost of the houses themselves. The expenditure can be analysed as follows:—

-	Cost	Vote	Temp. Housing A/c	Ruilding Mat. and Housing Fund	L.A's		
£000' c							
M. of Health	340	340	-	_	-		
Dept. Health for Scotland M. of Supply M. of Works	950	103	950 1,450	150	- 20		
Total	£3,477				1		

The plain man might want to know whether this is too much or too little, but on this point the Seleci Committee does not venture an opinion. £2,400,000 of this total was the cost of running the temporary housing scneme for one year. The temporary housing scneme was the first really large-scale centrally executed Government housing scheme in Great Britain. The houses erected over the year will number some 70,000, so the cost per house of planning, programming, letting contracts, etc. for the scheme will work out (very roughly, of course) at some £22 per house. Since this scheme is the first of its kind, and has had all the teething troubles of a major new enterprise, this cost cannot be regarded as, prima facie, unreasonable.

That leaves £1,077,000 for permanent

That leaves £1,077,000 for permanent housing. The value of all the permanent housing work done in the current year will be some £200 millions (again necessarily an approximation), and the number of houses completed will be some 110,000. Thus the cost of Administration will be some 0.5 per cent. of the value of work done, or £15 per house finished to date.

These figures make it plain that, whatever may be said in criticism of Government administration, it is not unduly expensive. Of course, if, as some allege, the work done by the Government has hindered rather than helped the housing programme, the cost of Administration is dear at any price. But few who have studied these problems impartially—such as the Central Council of Works and Buildings, and others since—have questioned that Government control in these post-war years was necessary if housing was to receive any effective priority (by housing is meant houses for the less well-to-do).

Therefore, the argument shifts on to the merits of the Administrative action taken, and on how far its organization is well-devised. On this, the Select Committee offers, by implication, some criticism, since it recommends nine forms of improvement.

RECOMMENDATIONS

Four of the recommendations]nos. (i), (vi), (vii) and (viii)] suggest reforms in administrative procedure; the Treasury should maintain a "continuous scrutiny" to avert possible overlap between the Departments, forms and returns should be simplified and reduced in number "so far as possible," Local Authorities should be informed by the Ministry of Works of all licences issued in their area, and the relations of Regional Officers and Local Authorities should "be the subject of full investigation"—"the larger authorities do not appear to make full use of the Regional Organization."

Three other recommendations [(ii), (iii), and (iv)] cover diverse points: there should be an "even balance" struck between the demands of the permanent and temporary housing programmes (the Committee might have explained how this Solomon-like decision was to be implemented) for such items as metal windows and baths, an early decision was wanted on whether permanent non-traditional houses were to proceed, and the numbers of workers in the building and building materials' industries should be augmented by Government action. The remaining two recommendations dealt with accounting procedure.

The Committee made no recommendation on the broad issue of co-operation between the different Departments. They took note that an officer had been appointed to assist the Cabinet Committee on Housing. "No evidence was taken on the duties of this officer as he had but recently taken up his appointment. Your Committee were assured that there was the closest co-operation on housing matters between the Departments in London, and have had for the prevent to content themselves with this assurance." The juxtaposition of these remarks

suggests that very much weight was attached to the efforts of one officer in the service, as an agent of co-ordination. The Committee evidently felt dubious, and left the case for or against a Ministry of Housing non-proven.

non-proven.

But at least the Committee's report has shown what the scale of the task of setting up a single Ministry of Housing really is. Apart from the expenditure on Temporary Housing—run by a Temporary Housing section that could presumably report just as easily to one Minister as to another—the Ministries together are spending about £1 million. Critics of the Ministry of Housing proposal have hither o argued that it involved a top-heavy organization. But surely the expenditure of £1 million a year could be handled by a single organization. Large as the figure it, it is not unmanageable.

Especial concern was expressed by the Committee over the possible duplication in the numbers of architects employed by the Ministries of Health and Works. They "were assured" that there was not an overlap, but a doubt seems to have remained. This sort of doubt is bound to remain until the housing departments are amalgamated into a single organization. The case for division between "design" (Health) and "building technique and use of materials" (Works) is not made convincingly.

STATISTICS AND PROGRESS

Little by little more facts on the building position are disclosed. Some of the most important figures are the numbers employed in the building materials industries; these have never been regularly issued. Now, almost by chance as it were, some of these statistics (up to September, 1946) are published by the Select Committee. They may be summarised as showing a very substantial increase in the labour force employed, between December, 1945, and September, 1946. Employment on bricks rose from 16,000 to 40,000; in the cement industry, from 6,900 to 9,700; on roofing tiles from 3,200 to 6,000; concrete products 9,200 to 18,300; and on metal windows from 5,900 to 8,400. The rise for asbestos cement goods (3,100 to 3,600) and for plaster, plasterboard and gypsum (3,100 to 3,600), was not so satisfactory.

GENERAL PROVISION OF FINANCE

Apart from sorting out the cost of administration, the Committee analyses the numerous headings under which expenditure of one kind or another is incurred by the Government on housing. In an appendix they show, for instance, that £12.4 millions have been provided to assist the non-traditional houses, and some £61 millions for the temporary houses. But the multitude of funds and votes under which expenditure is now accounted makes the presentation of a consolidated return on housing an urgent necessity unless 'all control of housing finance is to be bogged down in unnecessary technicalities.

In general, this Select Committee has done valuable work in laying so many facts before the public. But the Committee's report is remarkable for the sense of help-lessness that it conveys. It is difficult for the ordinary person to grasp what a complex problem is presented by house-building, and what numerous ramifications there are in both the Government machine and in the building industry itself; only those in daily contact with these problems can understand—even if they cannot improve—the exact position of each part in the whole endeavour. A committee of busy M.P.s, however manfully it tries, cannot probe these complexities. It cannot even get its simplest statistics correct (misquoting 496.000 as the "number of building operatives employed" in 1944). The difficulties of the Committee themselves illustrate the need for re-organisation.

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Announcements

The RIBA Board of Architectural Educa-The RIBA Board of Architectural Educa-tion announces that the preliminary com-petition for the Tite Prize will be held in London and at centres in the provinces on March 31. The closing date for the sub-mission of forms of application is February 14. For the Soane Medallion only one en loge competition will be held. This will 14. For the Soane Medallion only one en loge competition will be held. This will be in London and at centres in the Provinces on July 22. The closing date for forms of application is May 16. Forms of application for admission to the competitions may be obtained at the RIBA, 66, Portland Place, London W.1. London, W.1.

The Miles Aircraft Co., Ltd., has formed a Housing Association to build 500 houses for their own workers. A start is to be made at once on the first 70 houses. The for their own workers. A start is to be made at once on the first 70 houses. The project is to be run as a mixed community, and accommodation will be provided for all income groups. There will be some blocks of flats, some semi-detached and terrace houses, and a few houses standing in their own grounds. The project also includes a community centre, shops, garages, a secondary school, nursery school, children's playground and sports ground. It is also the intention to provide all houses with background heating from a central boiler. Arcon, chartered architects, have been appointed architects for the whole project.

Mr. T. Noel Mitchell, B.ARCH.(LIVERPOOL), A.R.I.B.A., Chief' Assistant Architect, the Borough Architects' Department, Derby, has been appointed Education Architect to the County Borough of Middlesbrough.

Mr. W. R. Barlow, Secretary of the Cement Marketing Company, Limited, for the past 20 years, has retired. He remains on the Board but has relinquished active varieties in the company's routine

on the Board but has relinquished active participation in the company's routine affairs. His connection with the cement in-

dustry dates back to 1897 when he joined the staff of Messrs. Hilton, Anderson, Brooks and Co., Ltd. In those days this firm was one of the largest manufacturers firm was one of the largest manufacturen of cement, and it was subsequently incorporated in the Associated Portland Cement Manufacturers, Ltd.

The address of the Organizing Secretary of the House-Building Industries' Standing Committee (Mrs. M. Pleydell-Bouverie) is compact of the Manchester Square London Williams.

Committee (Mrs. M. Pleydell-Bouverie) is now 4, Manchester Square, London, W.1. Telephone: Welbeck 1356.

The French monthly architectural paper L'Architecture Francaise is once more available to English readers. The annual subscription rate is 1.400 frs, and orders may be placed either with the Continental Publishers and Distributors, Ltd., 34, Maiden Lane, W.C.2, or direct with the publishers: L'Architecture Francaise, 41, Bd de Latour-Mauborg, Paris, 7°.

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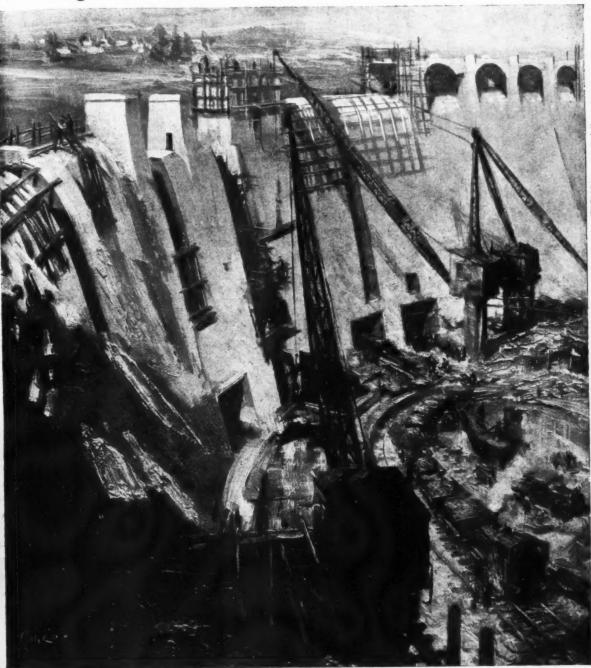
Correction

The caption to the top illustration in the advertisement of Messrs. Kwikform, Ltd., in our issue for January 16, page lxxiii, reads: "No-Fines Concrete Construction showing combination of wall forms and Kwikform wall Scaffolding." This should read, Kwikform Unit Scaffolding. There is no such thing as Kwikform wall scaffolding. Kwikform unit scaffolding is equipment for unit scaffolding is equipment for unit scaffolding. The season of the construction purposes and can be versal construction purposes and can be utilized for many constructional jobs, in-cluding the building of walls.





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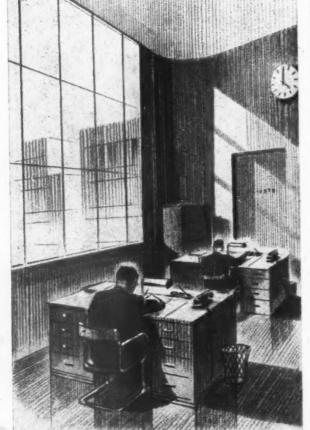
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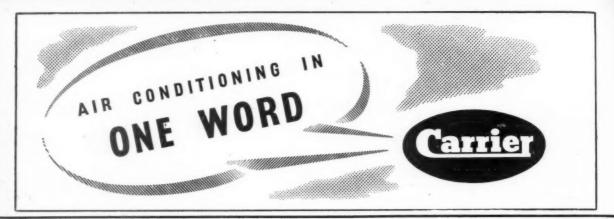
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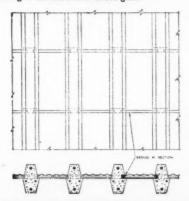
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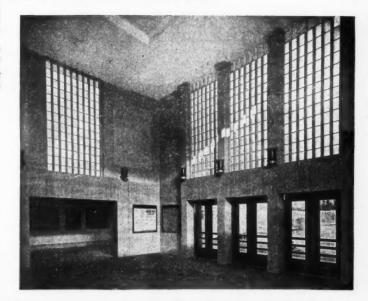
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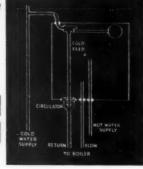
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LONDON COUNTY COUNCIL.

VACANCIES FOR PLANNING STAFF IN THE
ARCHITECT'S DEPARTMENT FOR WORK ON
THE COUNTY OF LONDON PLAN.
Applications are invited for a number of positions in the following grades:

PLANNING OFFICER (Grade III). Up to
£500 a year (basic).

TECHNICAL ASSISTANT. Up to £420 a year
flasic).

TECHNICAL ASSESSMENT AND THE CONTROL OF T

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

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

ning plans.

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

tions.

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

Application should be made to the Architect to the Council, County Hall, West-minster Bridge. B.L. for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies.

CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following temporary appointments:—
CLERK OF WORKS.—Salary £10 10s. per week. Required to supervise the erection of a large group of School buildings, and must have had previous experience of similar work.
TWO CLERKS OF WORKS. Salary £7 7s. per week; with experience in the erection of School buildings.
In addition to the salaries payable, there will be a cost-of-living bonus, at present £59 16s. per annum.

e appointments will be subject to one month's

The appointments will be subject notice on either side.

Applications, giving full details of experience, etc., are to be addressed and delivered to the undersigned not later than 10 a.m. on Wednesday, 5th February, 1947.

J. NELSON MEREDITH, F.R.I.B.A., City Architect.

Hagle House, Colston Avenue, Bristol, 1, 17th January, 1947.

LEEDS SCHOOL OF ARCHITECTURE.

Applications are invited for the undermentioned posts, in the Leeds School of Architecture. Candidates abould preferably have been trained in a recognized 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. recommendation

commendation.

(2) LECTURERS AND STUDIO INSTRUC-ORS in Architecture.

Candidates will be required to lecture in sub-cts to be arranged, and to instruct in the

Studio.

Burnham Salary Scale: Men £315—£15—£5559

women, £282—£12—£444, with additions for fulltime architectural school training. War service
and up to 10 years' professional experience may
be counted as teaching service in fixing the commencing salary. Opportunities for promotion to
Senior Lectureships and posts with responsibility

Further particulars and application forms may be obtained by sending stamped addressed envelope to The Director of Education, Education Offices, Leeds. 1. 706

Offices, Leeds. 1. 706

BOROUGH OF NELSON.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of Second Architectural Assistant, in the Borough Surveyor's Department, at a salary in accordance with Grade IV of the National Scale, £420-£15-£465, plus cost-of-living bonus, at present £59 16s, per annum.

Candidates should have had experience in housing and general work. Applications, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant." with copies of three recent testimonials, to be delivered to the undersigned on or before Saturday, 2th February, 1947.

F. W. ROBERTS, Clark

F. W. ROBERTS, Town Clerk.

Town Hall, Nelson, Lancs. 15th January, 1947.

Town Hall, Nelson, Lancs.

15th January, 1947.

METROPOLITAN BOROUGH OF POPLAR.
APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE A.P.T. V).

Applications are invited from duly qualified Architects for the above permanent staff appointment, in the Borough Engineer and Surveyor's Department of the Council.

The salary attaching to the post will be in accordance with Grade V of the A.P.T. Division of the National Scale of Salaries, ntz., £460 per annum, rising by two annual increments of £15, followed by one of £20 to a maximum of £310 per annum, plus London "weighting" of £20 per annum and cest-of-living bonus, which is at present £59 16s. per annum.

Candidates must have had extensive experience in the planning and design of housing schemes, preferably under a local authority.

The appointment will be subject to the provisions of the Peplar 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 "Architectural Assistant, Grade V." stating age, qualifications and experience, present and past employment, and accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than 9 a.m. on Saturday, 8th February, 1947.

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

S. A. HAMILTON,

Town Clerk

Poplar Town Hall, Bow Road, E.3. 14th January, 1947.

14th January, 1947.

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, on the permanent staff...

Conditions of service and salaries are in accordance with the Council's Salaries Scales.

(a) CHIEF ASSISTANT ARCHITECT. Grade "K." 2700-£900.

(b) TWO SENIOR ASSISTANT ARCHITECTS (EDUCATION). Grade V, £450-£510.

(c) ONE ASSISTANT ARCHITECT (EDUCATION), Grade IV, £425-£465.

In addition to the salaries payable under the respective grades, a cost-of-living bonns, at present £59 16s. per annum, is payable in each case.

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

Applications, giving details of age, education, qualifications and experience, accompanied by copies of not more than three recent testimonials, are to the addressed and delivated to the under-

copies of not more than three recent testimonials, are to be addressed and delivered to the undersigned not later than 10 a.m. on Wednesday, 5th February, 1947.

J. NELSON MEREDITH, F.R.I.B.A.. City Architect.
Bristol, 1.
17th January, 1947.

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CANNOCK URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
DRAUGHTSMAN AND CLERK OF
WORKS.
Applications are invited for the following

appointments:

appointments:—

(1) Architectural Draughtsman, at a salary in accordance with Grade II of the A.P.T. Division of the National Scale (£360-£405), plus cost-of-

accordance with Grade II of the A.P.T. Division of the National Scale (£360-£405), plus cost-of-living bonus.

(2) Clerk of Works (Temporary) to supervise the erection of permanent houses, at a salary at the rate of £350 per annum, plus cost-of-living bonus (at present £59 16s. per annum). Applications for either post, giving full details of age, training, qualifications, present and previous appointments, nature of experience, and accompanied by copies of two recent testimonials, must be delivered to the undersigned not later than 10th February, 1947.

Candidates are required, when making application, to disclose in writing to the undersigned whether to their knowledge they are related to any member or the holder of any office under the Council. A candidate who fails so to do will be disqualified for the appointment, and, if appointed, will be liable to dismissal without notice.

notice.

Canvassing members of the Council or any
Committee of the Council will also disqualify.

WM. C. SPEEDY,

Clerk of the Council.

Council House, The Green, Cannock.

The Scottish Special Housing Association invite applications for the whole-time appointment of CHIEF ARCHITECT. Salary scale, £1,200×£50×£1,450. Applicants must be Registered Architects and Follows or Associates of the Royal Institute of British Architects, or should possess equivalent qualifications. Membership of the Town Planning Institute will be considered as advantage. Applicants should possess experience in municipal housing work, and should be familiar with the design of layouts and of all types of dwellings, including multi-storey flats. Knowledge of alternative methods of construction is desirable.

No bonus is payable in addition to the salary scale mentioned, and placing within that scale

desirable.

No bonus is payable in addition to the salary scale mentioned, and placing within that scale will depend upon qualifications and experience. The successful applicant will be required to coordinate and generally supervise the architectural work of the Association's direct labour organisation, and also the work of Architects in private practice engaged by the Association for specific housing schemes.

The Association have adopted the provisions of Part I of the Local Government Superannuation (Scotland) Act, 1937, and the successful applicant will be required to pass a medical examination. Forms of application, with full particulars, can be obtained from the Secretary, Scottish Special Housing Association, Ltd., 11, Drumsheugh Gardens, Edinburgh, 3, and all applications must be in the hands of the Secretary not later than 28th February, 1947. Canvassing will be a disqualification. qualification.

Applications are invited for the following permanent appointments in the Reconstruction Department. The appointments will be subject to satisfactory medical examination, to the provisions of the Local Government Superannation Act, 1937, and will be terminable by one month's notice on either side. The salary for each position is as set out below, and in each case is exclusive of a cost-of-living bonus, which is at present £59 158.

(a) PLANNING ASSISTANT. £536, rising by annual increments of £20 to £600.

Applicants should have had experience in planning, including Control of Interim Development. Basic Surveys, the Preparation of Schemes and Housing Layouts, and should have passed the final examination of the Town Planning Institute. Civil Engineering or Architectural qualifications will be an additional recommendation.

(b) PLANNING ASSISTANT. £390, rising by annual increments of £15 to £435.

Applicants should have had experience in the preparation of Schemes and Basic Surveys, and should have passed the final examination of the Town Planning Institute.

Applications, indicating the post applied for, and stating age, qualifications, experience, and present position, and enclosing copies of three recent testimonials, must reach the undersigned not later than Monday, 24th February, 1947. Canvassing in any form, either directly or indirectly, will disqualify.

HARRY TAYLOR, Town Clerk.

EDINBURGH COLLEGE OF ART.

Applications are invited for appointment of:—
(a) SENIOR ASSISTANT in School of Design.
Salary scale, £600-£750.
(b) ASSISTANTS in School of Drawing and Painting, Salary scale, £450-£600.
Successful applicants will receive placing within the scales according to qualifications and experience, but commencing salaries will not exceed in (a) £700 and (b) £555 per annum.
Full particulars and forms of application from the Registrar and Secretary, with whom applications should be lodged not later than 22nd February, 1947.

CITY OF PORTSMOUTH.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments, on the permanent staff of the City Architect's Department:—
(a) ASSISTANT ARCHITECTS Grade IV.

Grade III.

ASSISTANT ARCHITECTS.

(b) ASSISTANT ARCHITECTS. Class 2590-2435.

The salary scales are those of the A.P. and T. Division of the National Scheme of Conditions of Service. In addition a cost-of-living bonus, at present £59 16s, per annum, is paid.

Candidates should be Members of the Royal Institute of British Architects, and have had good training and experience in the design and construction of modern buildings.

The appointments will be subject to the National Scheme of Conditions of Service, to the provisions of the Local Government Superannualizada.

provisions of the Local Government Superannuation Act, 1937, and to one calendar month's notice on either side. Successful candidates will be required to pass a medical examination.

Applications, setting out in tabular form, name, age, qualifications, present and previous posts, and experience, together with copies of not more than three testimonials, must be delivered to the undersigned not later than 10 a.m. on Monday, the 17th February, 1947.

Canvassing will be a disqualification.

V. BLANCHARD,

Town Clerk.

City Council Chambers, 1, Clarence

City Council Chambers, 1, Clarence Parade, Southsea. 15th January, 1947.

CORPORATION OF LONDON.
CUTY SURVEYOR'S OFFICE.
APPOINTMENT OF TECHNICAL STAFF.
Applications are invited for the following appointments, in the city Surveyor's Office:—ARCHITECTURAL ASSISTANTS. Salary 2350, inclusive of consolidated bonus.
Applicants should be students of the Royal Institute of British Architects or probationers of the Royal Institution of Chartered Surveyors (Building sub-division).
The appointments are for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. There will be a possibility of establishment for suitable men, and temporary service will count for the purpose of superannuation. Such appointments will be required to pass a medical examination.
Previous experience with a Municipal Body is not essential.
Applications, endorsed "Technical Staff," to be

required to pass a medical examination.

Previous experience with a Municipal Body is not essential.

Applications, endorsed "Technical Staff," to be made to George Holliday, F.S.I., The City Surveyor, 55-61, Moorgate, E.C.2, giving the following particulars: Service with Armed Forces, age, qualification or intentions in connection therewith, previous training, positions and experience, date when available to commence duties if selected, together with copies of two testimonials.

CITY OF MANCHESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

ASSISTANT ARCHITECTS. Basic salary £420 per annum × £15 to £465, plus cost-of-living bonus, at present £60 per annum.

Candidates should be Associates of the Royal Institute of British Architects, and have had a thorough training in design and construction, preferably at a School of Architecture, and be experienced in the preparation of sketch plans, working drawings and details.

ASSISTANT QUANTITY SURVEYORS. Basic Salary, £420 per annum × £15 to £465, plus cost-of-living bonus, at present £60 per annum. Candidates should have had considerable experience in the preparation of bills of quantities, estimates, valuations, and the settlement of accounts.

The successful candidates will be required to

accounts.

The successful candidates will be required to pass a medical examination before the appointment is confirmed, and to contribute to the Corporation Superannuation Fund, and to execute the Corporation's Deed of Service.

the Corporation's Deed of Service.

Applications must be made on the official form, which can be obtained at my office, and must be returned (together with not more than three recent testimonials) to me—and not to any member of the Council—by Saturday, 22nd February, 1947, endorsed for the appropriate appointment. Canvassing in any form, oral or written, direct or indirect, is prohibited, and will be regarded as a disqualification.

PHILIP B. DINGLE,
Town Clerk.

Town Hall, Manchester, 2. January, 1947. LONDON COUNTY COUNCIL.

LONDON COUNTY COUNCIL.

Required at the Brixton School of Building,
Ferndale Road, S.W.4, suitably qualified Men
for inclusion on the PANEL of Part-time Day or
Evening LECTURERS in the following
subjects:—Building Construction; Building Geometry; Builder's Quantities; Builder's Accountancy; Architectural Design; Structural Theory;
Land Surveying; Hydraulics (Structural Engineering Course). Other things being equal, proference will be given to registered disabled
persons. Application forms obtainable from the
Secretary at the School. (217)

COUNTY BOROUGH OF SUNDERLAND
EDUCATION COMMITTEE.
Applications are invited for the following appointments on the staff of the Education Architect, in accordance with National Scales of

ARCHITECTS (salary, a) TWO ASSISTANT ARCHITECTS (salary, A.P.T., Grades III or IV, £390-£435 or £420-£465),

A.P.T., Grades III or IV, £390-£435 or £420-£455), according to experience.

(b) TW ASSISTANT ARCHITECTS (salary, General Grade or A.P.T., Grade I, £265-£300 or £330-£375), according to age and qualifications. All the above appointments will carry a cost-of-living bonus, at present £59 19s. 3d.

For appointments (a) applicants must be Associate Members of the R.I.B.A. or hold equivalent academic qualifications. For appointments (b) applicants who have passed the Intermediate Examination of the Royal Institute of British Architects will be placed on Grade A.P.T. I.

The appointments will be subject to the pro-

A.F.T. I.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the selected candidates passing a medical eamination as required by the

Council.

Applications, giving full particulars, qualifications, experience, age, present and previous
appointments, accompanied by copies of not more
than three recent testimonials, to be addressed
and appropriately endorsed to the undersigned
not later than first post on Tuesday, 11th Februgy, 1947. W. THOMPSON,

Director of Education. Education Offices. 15, John Street, Sunderland.

Sunderland. 779

METROPOLITAN BOROUGH OF FULHAM.

APPOINTMENT OF DIRECTOR OF HOUSING AND PUBLIC BUILDINGS.

Applications are invited for the permanent appointment of Director of Housing and Public Buildings, at a salary of £1,500 per annum, rising by annual increments of £100 to £1,700 per annum, plus cost-of-living bonus. The person appointed will be responsible for the maintenance and management of existing Council-owned and requisitioned dwellings, the selection of sites for acquisition and development, rehousing where necessary from sites to be acquired, the clearance and preparation of sites for buildings, and the preparation of drawings, specifications, and bills of quantities. He will also be responsible for the erection of new Public Buildings as may be desired by the Council from time to time. The Council's housing programme provides initially for the erection of approximately 300 flats per annum, but a higher figure is ultimately in prospect.

Applicants must have had wide general experience in administration, and have considerable organising ability. The possession of architectural and/or Surveyor's qualifications is essential; practical experience in advising on and dealing with contracts and of their execution by direct labour is essential. Experience in local authority housing work is most desirable.

Particulars relating to the appointment and a form of application will be supplied on application to me, and applications must be received by me not later than 10th March, 1947. Canvassing will disqualify.

CYRIL F. THATCHER.

CYRIL F. THATCHER Town Hall, Fulham, S.W.6. January, 1947.

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the following

Applications are invited for the following positions:—

(1) SENIOR ARCHITECTURAL ASSISTANT (Grade V), £460-£510, plus bonus, at present £59 16s. per annum. Applicants should have had experience in the design of educational building, and preference will be given to Associates of the Royal Institute of British Architects.

(2) ARCHITECTURAL ASSISTANT (Grade IV), £420-£455, plus bonus, at present £59 16s. per annum. Applicants should preferably have had experience in either housing or educational works. Previous service with a Local Authority would be regarded as an advantage, and preference will be given to Members of the Royal Institute of British Architects.

(3) QUANTITY SURVEYOR (Grade V), £460-£510, plus bonus, at present £59 16s. per annum. Applicants should be experienced in the preparation of Bills of Quantities, the checking of interim valuations, and the settling up of final accounts. Preference will be given to Professional Associates of the Surveyor's Institution, and experience with a Local Authority would be regarded as an advantage.

Conditions of service are those formulated by the National Joint Council, and all three appointments are on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall.

examination.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall. Burnley, to whom applications should be returned in the envelope provided, not later than noon on Monday, the 17th February, 1947.

Town Hall Burnley. C. V. THORNLEY,

Town Hall, Burnley. January, 1947. Clerk

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DUNDEE COLLEGE OF ART.

SCHOOL OF ARCHITECTURE.

The Governors of the Dundee Institute of Art and Technology invite applications for the position of LECTURER AND STUDIO INSTRUCTOR, mainly for Constructional Subjects.

Applicants should be members of the R.I.B.A., and should preferably hold a Degree or Diploma of a recognized School of Architecture, or an equivalent qualification in their special subjects.

Salary scale: Men. 2450 by 215 to 2655; women, 2400 by 215 to 2575. Placing will be according to qualifications and experience.

Applications should be made not later than Wednesday, 12th February, 1947, on the prescribed form, copies of which with full particulars may be obtained from the undersigned.

GEORGE H. THOMSON.

Clerk and Treasurer.

Bell Street, Dundee.

Bell Street, Dundee.

Clerk and Treasurer.

14th January, 1947.

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of Two ASSISTANT QUANTITY SURVEYORS, on A.P.T., Grades IV and V, at a salary of 2420 per annum, rising to £510 per annum, plus a cost-of-living bonus, at present £59 16s, per annum.

Preference will be given to candidates who are Professional Associates of the Royal Institution of Chartered Surveyors (Quantities Division), and candidates should have had experience in the taking off of quantities and measuring up for and settlement of final accounts.

The appointment will be subject for its termination to one month's notice in writing on either side; to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination. Applications. accompanied by copies of not more than three recent testimonials, should state age, qualifications, previous experience, and the present appointment of the applicant, and must be received by Mr. A. G. Chant, F.R.I.B.A. County Architect, 5, Belmont, Shrewsbury, not later than 14th February, 1947.

Clerk of the Council.

Shirehall, Shrewsbury.

Clerk of the Council.

Shirehall, Shrewsbury.

January, 1947.

EAST SUFFOLK COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY
PLANNING OFFICER.

Applications are invited from suitably qualified persons for the appointment of Deputy County Planning Officer, in the County Planning Officer's

persons for the appointment of Deputy County Planning Officer, in the County Planning Officer, in the County Planning Officer's Department.

The salary will be within the A.P. and T. Division, Grades YII and YIII. of the National Joint Council's scale, being £575×£25 to £700 per annum, plus cost-of-living bonus (at present £59 16s. per annum), with scale allowance for use of motor car.

Applicants must have passed the Associate Membership Examination of the Town Planning Institute, and preference will be given to those persons possessing qualifications in engineering, surveying or architecture.

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

Candidates should have had wide experience of all aspects of Town and Country Planning, Interim Development Control, and the preparation of factual surveys, and administrative experience will be an advantage.

Applications, endorsed "Deputy County Planning Officer," stating age, experience, present position and qualifications, and accompanied by copies of not more than three testimonials, to be delivered to the undersigned not later than the first post, Saturday, the 2nd February, 1947.

CECIL OAKES.

Clerk of the County Council.

County Hall, Ipswich.

BOROUGH OF KING'S LYNN.

ARCHITECTURAL ASSIGNAME

County Hall, Ipswich.

BOROUGH OF KING'S LYNN.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Housing Architects Department of the Council. at a salary in accordance with Grade I of the A.P. and T. Division of the National Joint Council Scale of Salaries (£330-£375. by annual increments of £15), plus cost-of-living bonus (at present £59 19s). The commencing salary within the grade will be determined according to the candidate's qualifications and experience. Applicants should have passed the intermediate examination of the Royal Institute of British Architects, and must have had considerable experience in architectural work generally, and in the preparation of plans, estimates and specifications. 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. The appointment will be subject to one month's notice on either side. Applications, endorsed "Architectural Assistant," stating age, with full details of qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than Saturday, 22nd February, 1947.

FRANK G. REEVES.

Town Hall, King's Lynn. 13th January, 1947.

Town Clerk

CORPORATION OF GLASGOW—HOUSING DEPARTMENT.

SUPERINTENDENT OF PLANT.

Applications are invited for the position of Superintendent of Plant. The duties of the Superintendent will be to control, service, and maintain all the plant employed by the Direct Labour Organization on building and civil engineering work, and he should, therefore, have a wife knowledge of the latest types of mechanical plant used on building and civil engineering contracts.

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plant used on building and civil engineering contracts.

The salary for the position is on a scale £400 × £10-£500 per annum, plus war increase, at present £90 per annum.

The successful applicant will require to pass a medical examination for admission to the Corporation's Superannuation Scheme.

Applications, stating age, qualifications, and particulars of training and experience, enclosed in an envelope marked on the top left-hand corner, "Application for Superintendent of Plant," should be lodged with the Subscriber not later than 22nd February, 1947.

RONALD BRADBURY, Ph.D.

F.R.I.B.A.,

Director of Housing.

20, Trongate, Glasgow, C.1. January, 1947.

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following

Applications are invited for the following appointments:—
PRINCIPAL ASSISTANT ARCHITECT.
Comencing salary £800, rising by annual increments of £25 to a maximum of £900 inclusive.
Applicants must hold either a degree in Architecture or be Members of the Royal Institute of British Architects, and should have had a good experience in the control of staff, organization of work, and had a good training and an adequate experience in the design and construction of modern buildings. This appointment will require a specialized knowledge of the design of school buildings.
The following appointments will carry a costof-living bonus, at present £59 16s., and London allowance of £20 per annum.
ASSISTANT QUANTITY SURVEYOR (Grade VI).

Comencing salary £535, rising by annual increments of £20/£25 to a maximum of £600 per

annum.

Preference will be given to applicants who are members of the Surveyors' Institution (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, and in measuring up and in settlement of final

ASSISTANT QUANTITY SURVEYORS

Grade III).
Commencing salary £390, rising by annual increments of £15 to a maximum of £435 per

Commencing salary £390, rising by annual increments of £15 to a maximum of £435 per annum.

Preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors (Quantities Sub-Division), and be capable of undertaking working-up, and the general technical duties of a Quantity Surveyor's Office.

All the appointments will be subject to the provisions of the Local Government Act, 1937, and the appointments will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 15th February, 1947.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

DUDLEY AUKLAND.

Clerk of the Council.

County Hall, Kingston-upon-Thames. 215

DEPARTMENT OF HEALTH FOR SCOTLAND.

SENIOR PLANNING OFFICERS AND
PLANNING OFFICERS.

Applications are invited by the Department of Health for Scotland for appointment in Edinburgh to (a) three posts of Senior Planning Officer. The majority of these appointments will be on a permanent basis.

Candidates appointed to the senior posts will be on a permanent basis.

Candidates appointed to the Planning Regions Section, the Appeals Inspectorate, or to the staff engaged on planning technique, but two will be required as research officers (a) to correlate information on economic, social and industrial factors which affect planning, and (b) to act as maps officer.

The salary scales (both for the permanent and temporary appointments) are as follows:—

Senior Planning Officer: Mon. £1010×£30—

£1200; women, £270×£30—£1035.

Planning Officer of Mon. £1.010×£30—

£1200; women, £270×£30—£1035.

Planning Officer of Mon. £1.010×£30—

£1.200; women, £270×£30—£1035.

Planning Officer of Mon. £1.010×£30—

£1.200; women, £270×£30—£10.55.

£1.200; women, £870×£30—£1.035.
Planning Officer: £730×£30—£970; women, £810×£25—£830.
The above salary scales do not include consolidation additions, which at present range (a) for Senior Planning Officer from £105 (men), £84 (women), at the minimum to £120 (men), £96 (women), at the maximum, and (b) for Planning Officer from £96 (men), £72 (women), at the minimum to £105 (men), £84 (women), at the minimum to £105 (men), £84 (women), at the minimum to £105 (men), £84 of the per-

manent appointments is a pensionable official of a local authority, the Local Government and Civil Service (Superannuation) Rules, 1936, will

Civil Service (Superannuation) Rules, 1936, will apply.

Candidates must be between the ages of 30 and 49 on 1st January, 1947. Those applying for appointment to the two research officer posts referred to above must have a good University degree in economic geography. Candidates for the other appointments must be members of the T.P.I., and preference will be given to those having a basic qualification in Architecture, Engineering, or Surveying.

Applications will be considered from candidates in the Forces who expect to be released in the near future.

Forms of application, with further particulars of the appointments, may be obtained from the Establishment Officer (Room 31). Department of Health for Scotland, St. Andrew's House, Edinburgh, I, or from the Chief Officer, Civil Service Commission, at the following addresses:—(India), 10. Underhill Lane, Delhi; (Egypt), 8, Sharia Tolumbat, Garden City, Cairo; (Italy), c/o G.H.Q., C.M.F.; (Germany), c/o 2nd Echelon, G.H.Q., B.A.O.R. Completed application forms must be returned direct to the Department of Health for Scotland not later than the 15th March, 1947.

Those candidates who appear best qualified will be required to attend a Selection Board in Edinurgh or London.

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general experience, preferably with Local Authorities.

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

(3) The passing of a medical examination.

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

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Candidates must state whether they are related to any member or officer of the Council. Can-

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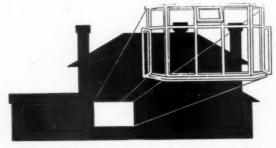
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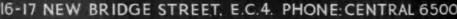
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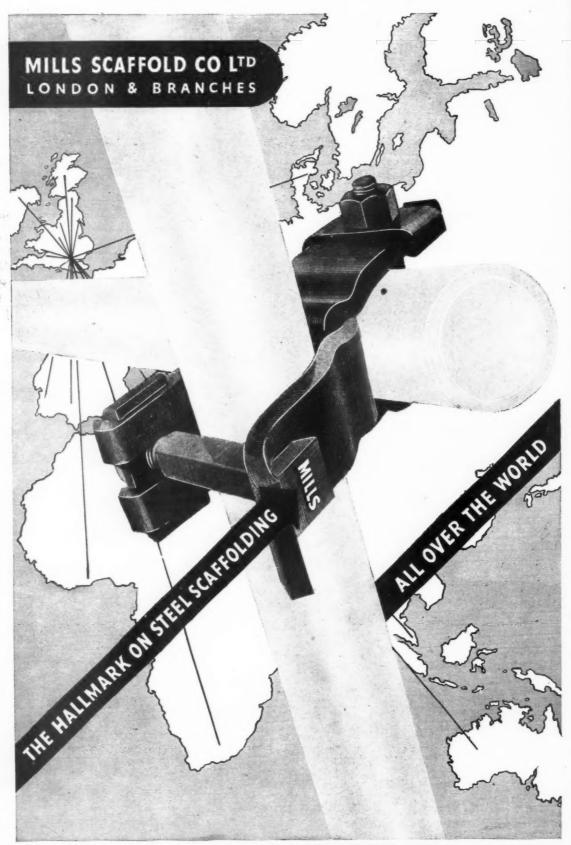
The addition of LIME to cement, sand, mixes in the proportions recommended by the HOUSING MANUAL reduces drying shrinkage and therefore a more intimate bond between mortar and walling units is provided, which increases the weather resistance of the masonry.

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



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