MAY 23 1960

The Architects' JOURNAL for May 5, 1960

EINE ARTS A R C H I T E URNA

★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 pub-lished in two parts—A to Ii one week, II to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

standard contents	ILA	Institute of Landscape Architects. 1, Park Crescent, Portland Place, W.1. Museum 3473
every issue does not necessarily contain	I of Arb	Institute of Arbitrators. Hastings House, 10, Norfolk Street, Strand, W.C 2. Temple Bar 4071
all these contents, but they are	IOB	Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197
the regular features which	IQS IR	Institute of Quantity Surveyors. 98, Gloucester Place, W.1. Welbeck 1859 Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
continually recur	IRA ISE	Institute of Registered Architects. 68, Gloucester Place, W.1. Welbeck 9966 Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128
NEWS and COMMENT	JFRO	Joint Fire Research Organisation (DSIR & Fire Offices' Committee). Fire Research Station, Boreham Wood, Herts. Elstree 1341/1797
Astragal's Notes and Topics	LDA LMBA	Lead Development Association. 18, Adam Street, W.C.2. Whitehall 4175 London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891
	MAFF MOE	Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1. Trafalgar 7711 Ministry of Education. Curzon Street House, Curzon Street, W.1. Hyde Park 7070
Letters	MOH	Ministry of Health. 23, Savile Row, W.1. Regent 8411
News	MOHLG MOLNS	Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service, 8, St. James's Square, S.W.1. Whitehall 6200
Diary	MOS MOT	Ministry of Supply. Shell Mex House, W.C.2. Gerrard 6933 Ministry of Transport, Berkeley Square House, Berkeley Square, W.1. Mayfair 9494
Criticism	MOW	Ministry of Works. Lambeth Bridge House, S.E.1. Reliance 7611
Gitteesm	NAMMC	Natural Asphalte Mine Owners and Manufacturers Council. 14 Howick Place, Victoria Street, S.W.1, Victoria 1600 & 6477
TECHNICAL SECTION	NAS NBR	14 Howick Place, Victoria Street, S.W.1. Victoria 1600 & 6477 National Association of Shopfitters. 2, Caxton St., S.W.1. Abbey 4813 National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1. Welbeck 0619
IECHNICAL SECTION	NCBMP	National Council of Building Material Producers. 10 Storey's Gate, S.W.1.Abbey 5111
Information Sheets	NEFMAI	National Employers Federation of the Mastic Asphalte Industry. 21, John Adam Street, Adelphi, W.C.2. Trafalgar 3927
Information Centre	NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054
Current Technique	NFBTO	National Federation of Building Trades Operatives. Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451
Working Details	NFHS NHBRC	National Federation of Housing Societies. 12, Suffolk St., S.W.1. Whitehall 1693 National House Builders Registration Council. 58, Portland Place, W.1.
Questions and Answers	NPL	National Physical Laboratory. Head Office, Teddington. Langham 0064/5 Molesey 1380
Prices	NRDB	Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3. Mansion House 9383
	NSAS	National Smoke Abatement Society. Palace Chambers,
The Industry	NT	Bridge Street, S.W.1. Trafalgar 6838 National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211
CURRENT BUILDING	PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1. Whitehall 7245 Reinforced Concrete Association. 94, Petty France, S.W.1. Abbey 4504
	RCA RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.
Major Buildings described:	RIBA	Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5533
Details of Planning, Construction,	RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1. Whitehall 5322/9245
Finishes and Costs	RFAC	Royal Fine Arts Commission. 5, Old Palace Yard, S.W.1. Whitehall 3935
Buildings in the News	RS RSA	Royal Society.Burlington House, Piccadilly, W.1.Regent 3335Royal Society of Arts.6, John Adam Street, W.C.2.Trafalgar 2366Royal Society of Health.90, Buckingham Palace Road, S.W.1.Sloane 5134
0	RSH RIB	Royal Society of Health. 90, Buckingham Palace Road, S.W.1. Sloane 5134 Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Wimbledon 5101
Building Costs Analysed	SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House,
1 1 1 1 1 1 1 1 1 1	SE	Grosvenor Gardens, S.W.1. Victoria 2186 Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244
Architectural Appointments	SFMA	School Furniture Manufacturers' Association. 30, Cornhill, E.C.3. Mansion House 3921
Wanted and Vacant	SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1. Langham 1984/5
	SIA SNHTPC	Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616 Scottish National Housing. Town Planning Council.
[No. 3394 [Vol. 131	SPAB	Hon. Sec., Robert Pollock, Town Clerk, Rutherglen Society for the Protection of Ancient Buildings.
THE ARCHITECTURAL PRESS		55, Great Ormond Street, W.C.1. Holborn 2646
9, 11 and 13, Queen Anne's Gate, Westminster,	TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2. Temple Bar 5006
S.W.1. 'Phone: Whitehall 0611	TDA TPI	Timber Development Association. 21, College Hill, E.C.4. City 4771
Price 1s. od.	TTF	Timber Trades Federation. 75, Cannon Street, E.C.4. City 5040
	WDC ZDA	War Damage Commission, 6, Carlton House Terrace, S.W.1. Whitehall 4341 Zinc Development Association. 34, Berkeley Square, W.1. Grosvenor 6636
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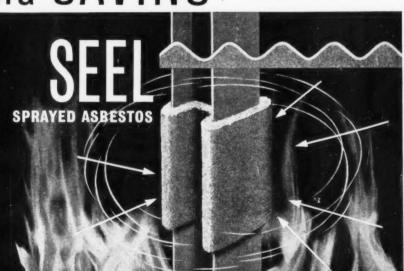
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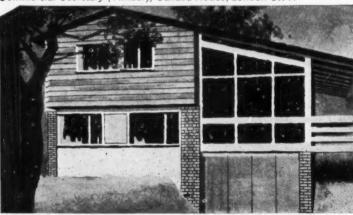
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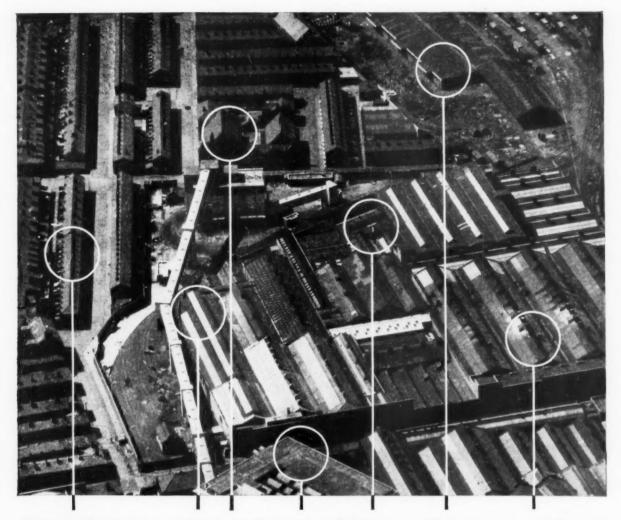
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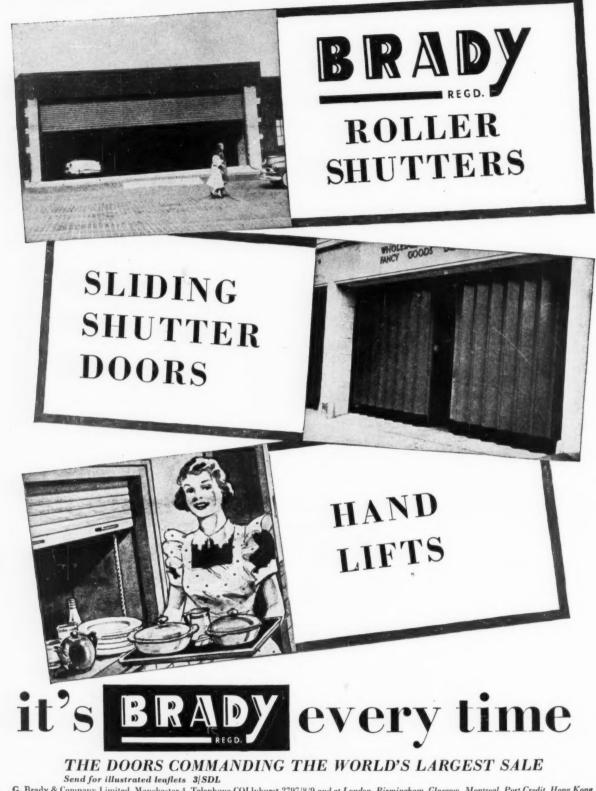
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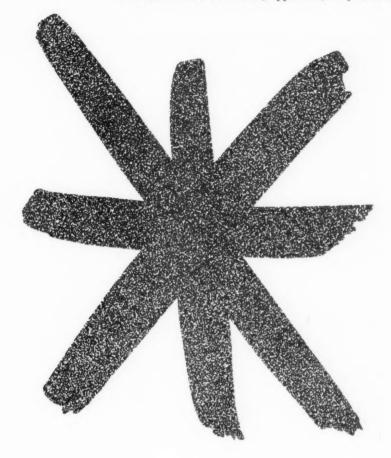
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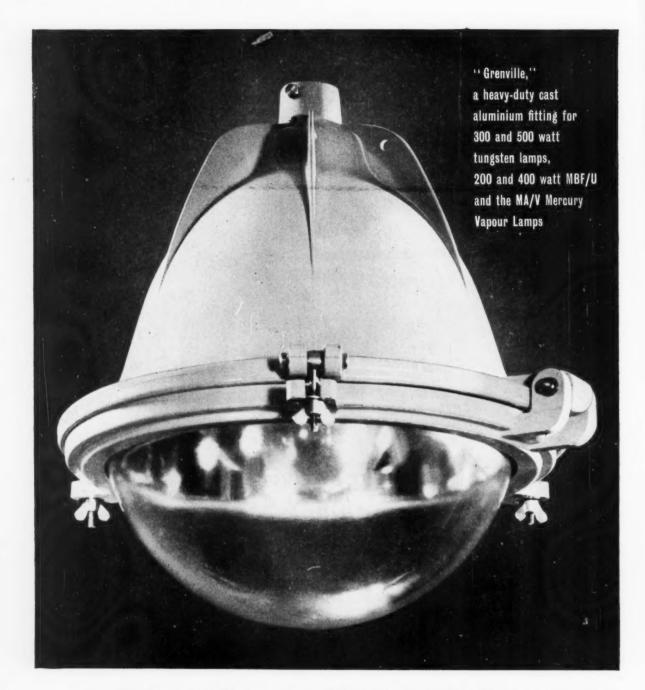
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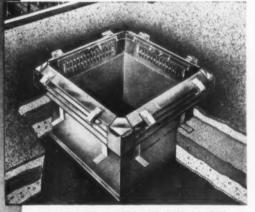


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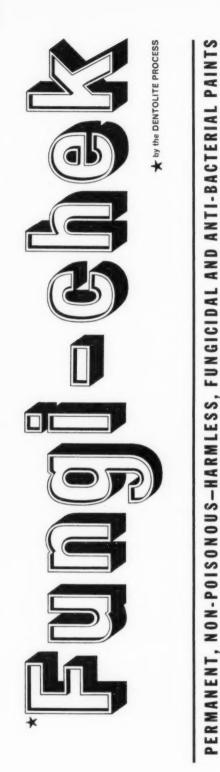


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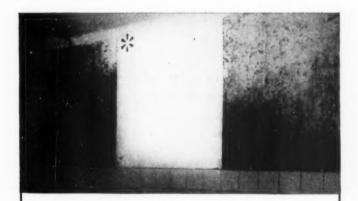
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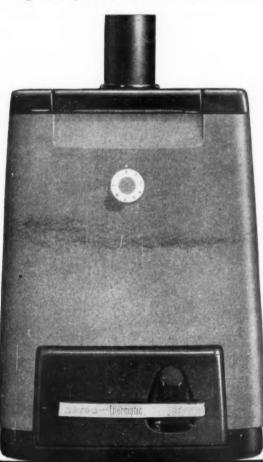
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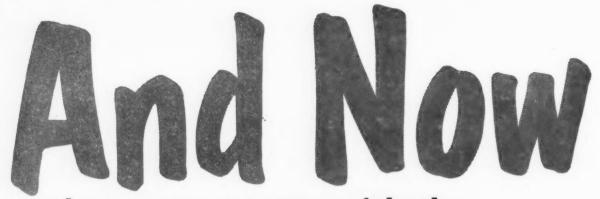
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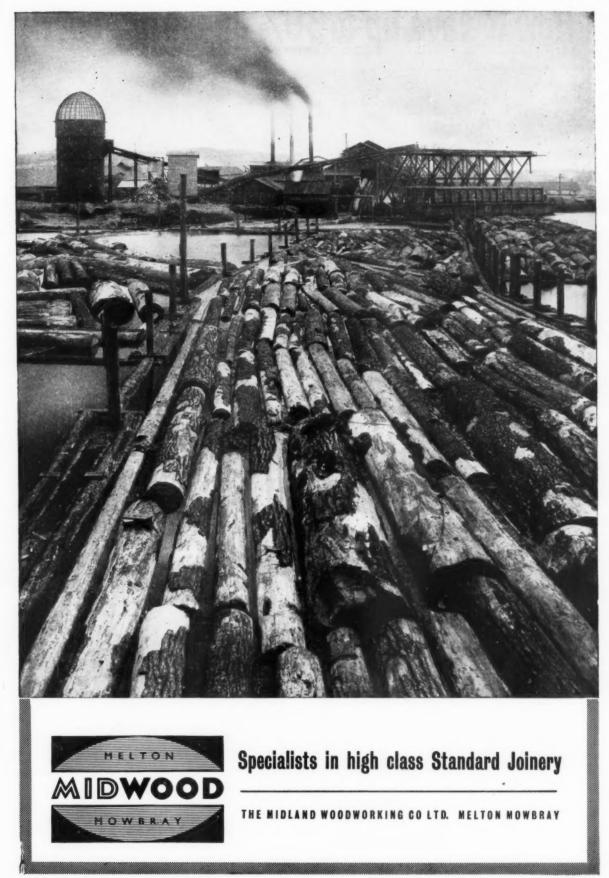
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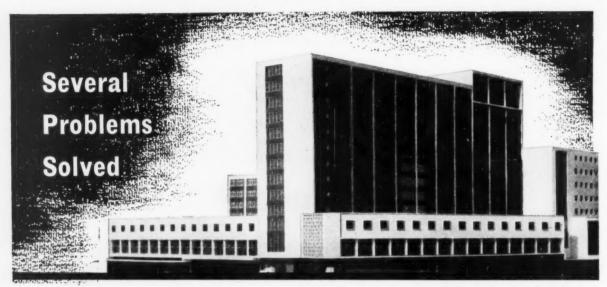
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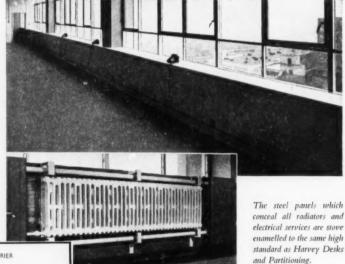


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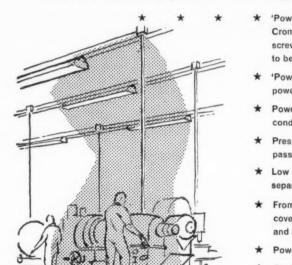
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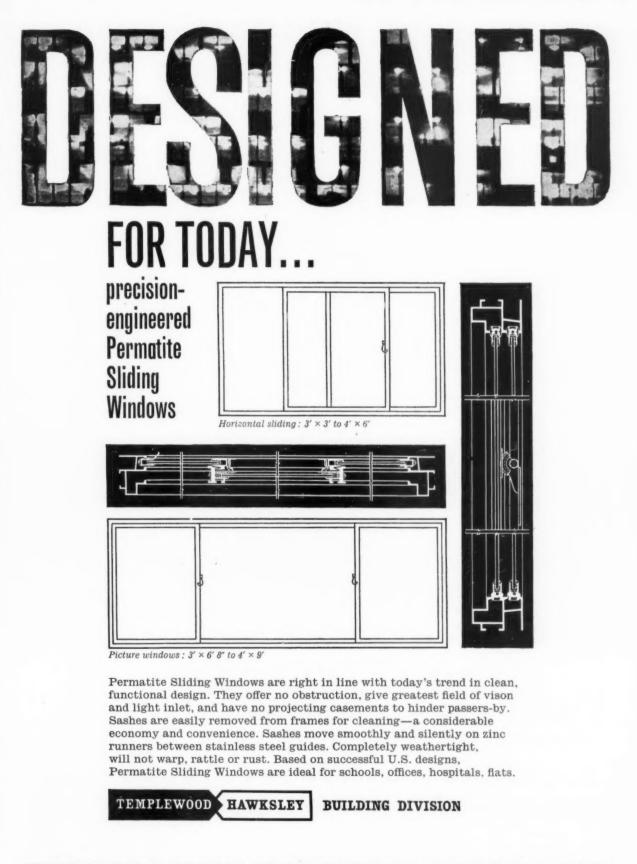




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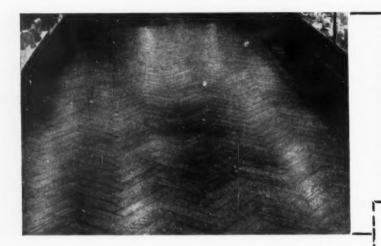
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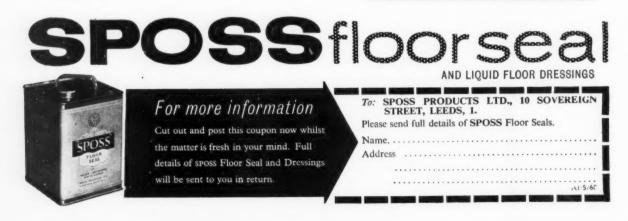
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"Crestaline' flooring made from 'Corvic' by Jas. Williamson and Son Ltd., Lancaster, at the Hobs Moat Branch Library, Solihull.

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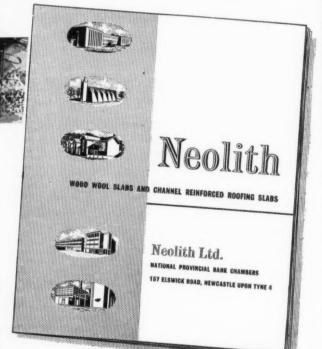


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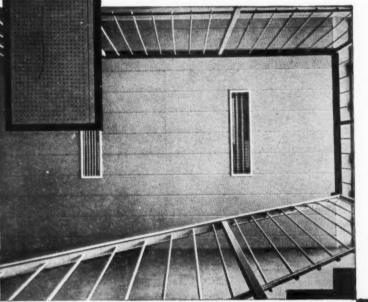


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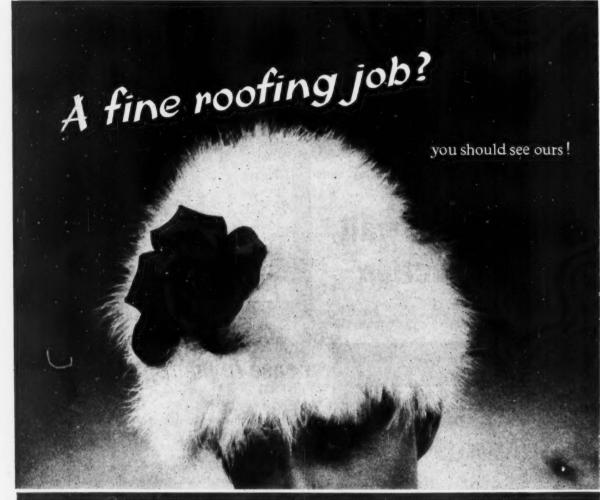
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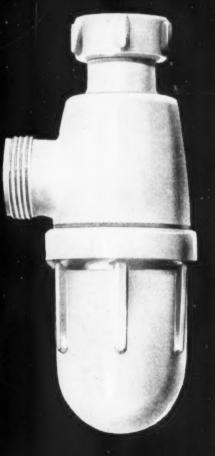
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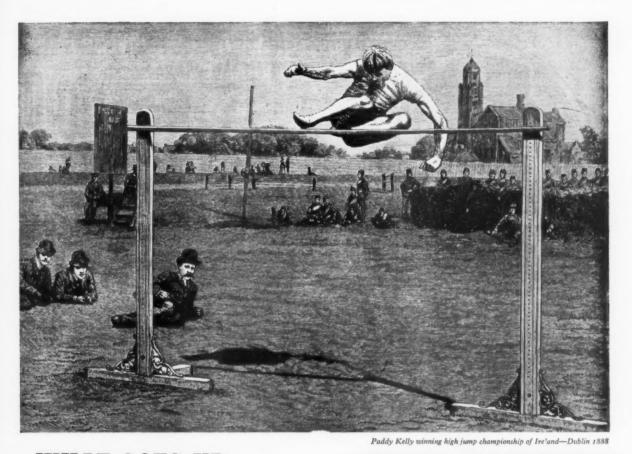
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Architects: Thomas Worthington & Sons, Manchester. Contractors: Witcombe & Blackwell Ltd., Leicester. Photograph: Thomas-Photos, Oxford. (reproduced by permission of the University Authorities) Lighting Fittings: Troughton & Young (Lighting) Ltd.

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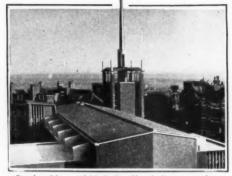
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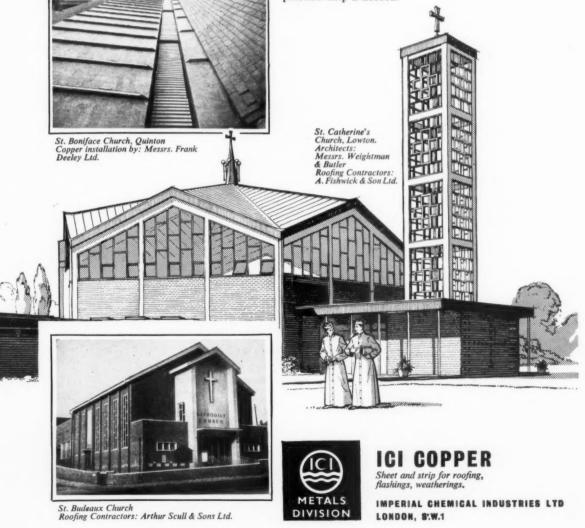


Punshon Memorial Methodist Church, Bournemouth Architect: Ronald Sims, A.R.I.B.A., A.A. Dipl. Hons. Main Roofing Contractors: Fredk. Braby & Co. Ltd. Tower Roof: R. G. Greenland & Co.

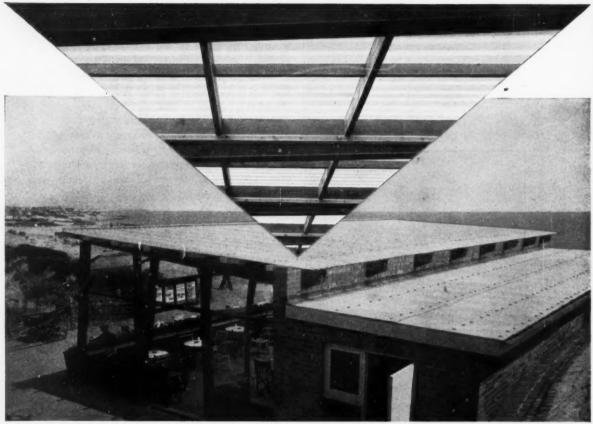
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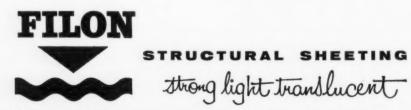


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PLATE 60/8-SANDROS

Design Registration No. 885660

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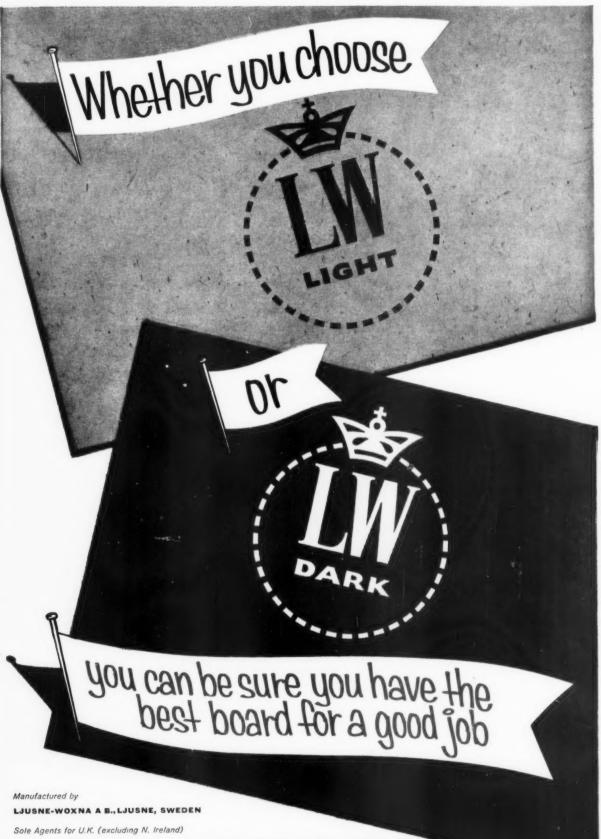


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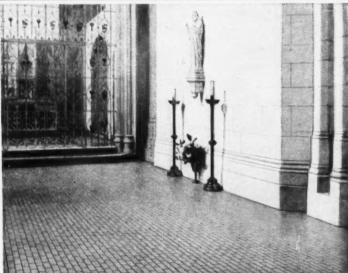






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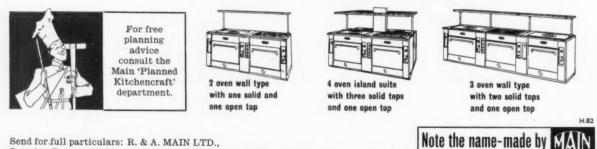
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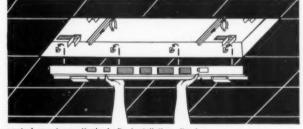
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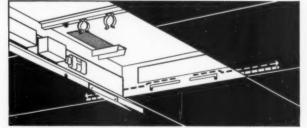
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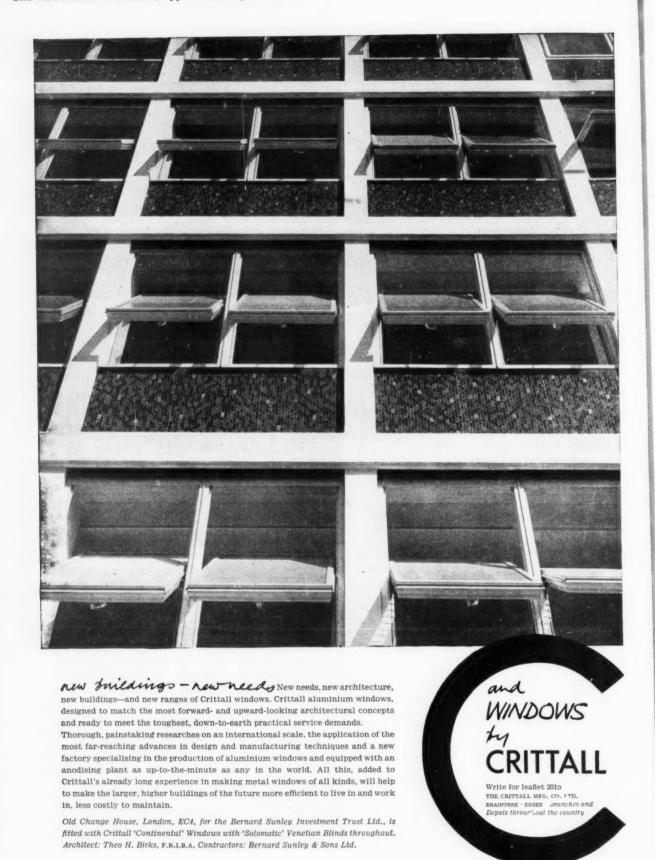
lateral adjustment using special slotted plates (see small illustration) allows pre-wiring of ceiling



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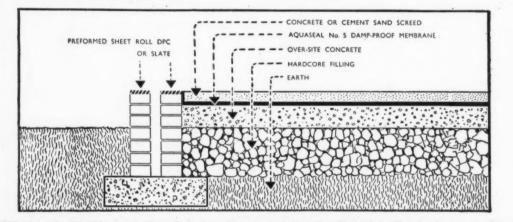
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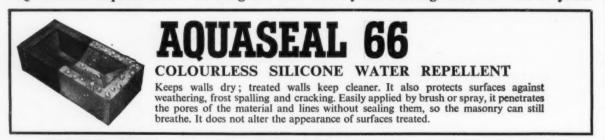
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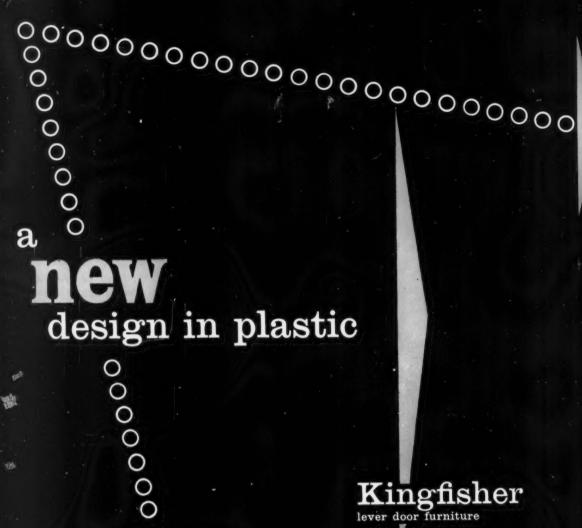
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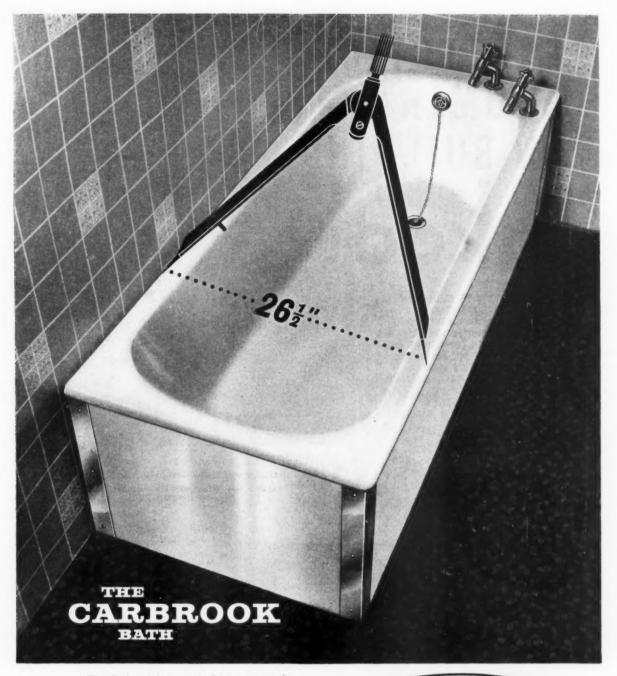


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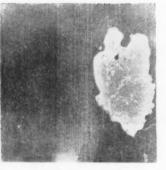
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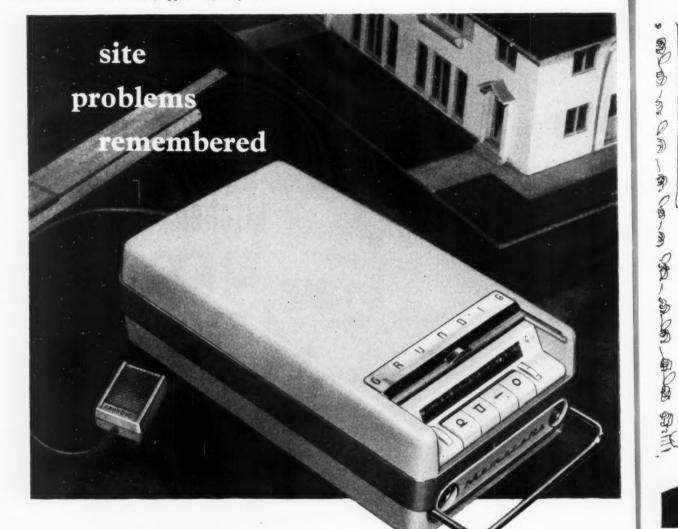
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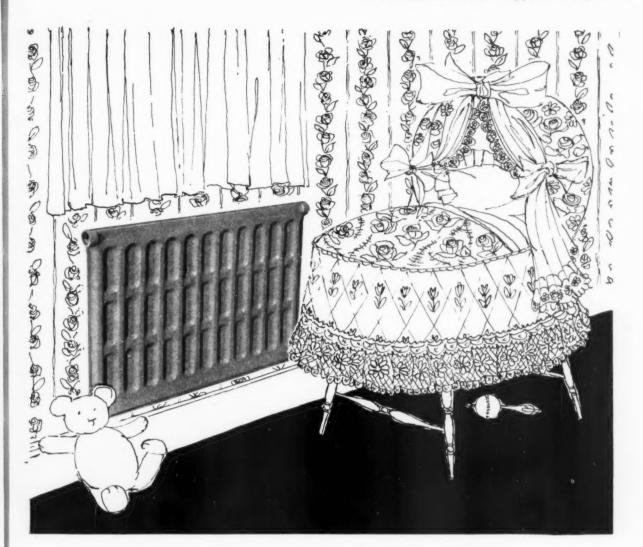
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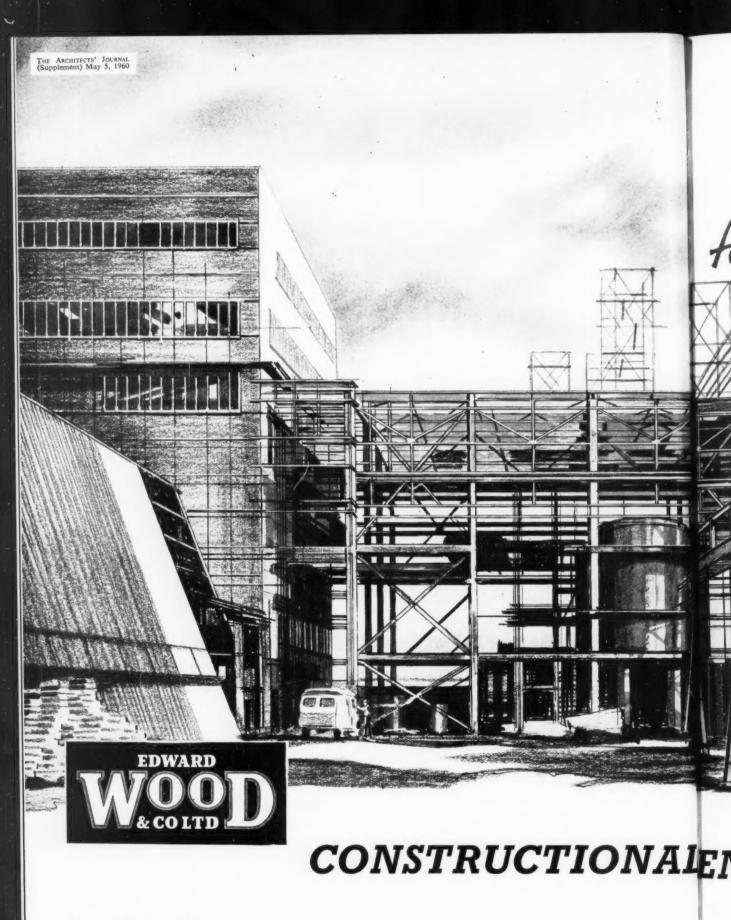
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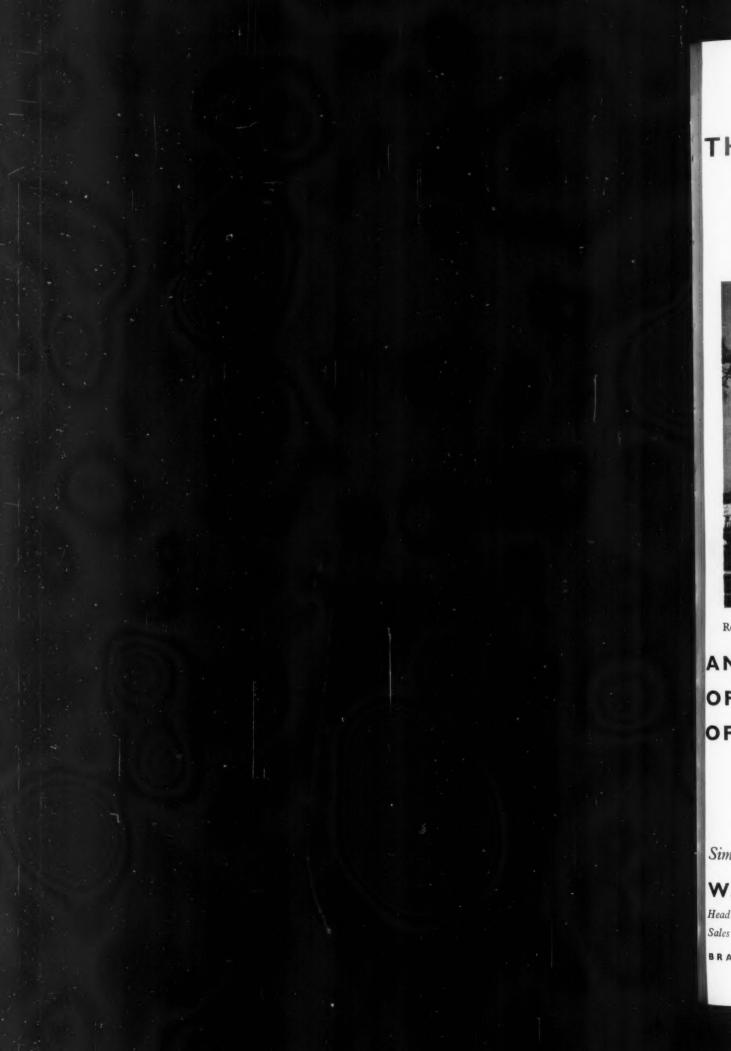
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THE ARCHITECTS' JOURNAL for May 5, 1960

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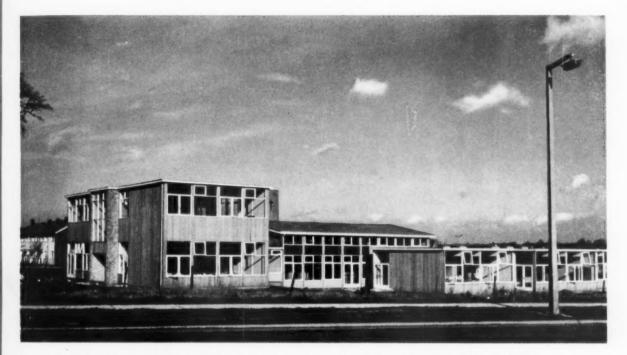


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NOT QUITE ARCHITECTURE

The Medium

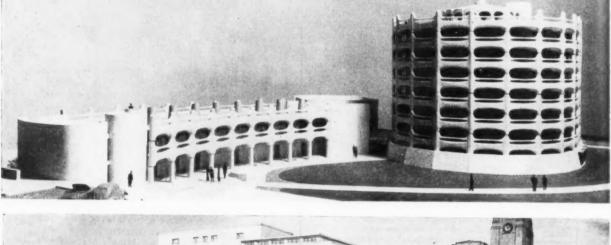
Now that it is all over, I must say that a great load has been lifted from my mind. The newspapers were very kind, of course, and such reproaches as they made were merited—a shifty look is no recommendation when a man stands before the bar of public opinion.

The only press comment that was off-beam, to my mind, was ASTRAGAL'S "Nobody had thought of using the unique resources of television to liven up what is really the first intelligent (*thinks*: Thanks!) architectural series to be presented on the idiot's lantern."

Curiously enough, everyone on the programme thought about it, and finally decided not to—and nobody except ASTRAGAL (and particularly not the specialist critics of **TV**) saw any reason to complain. On reflection, his complaint has the same olde worlde air as his use of the standard snob-ploy about "idiot's lantern"—though it still turns up in very square film criticism in the form of rather austere, *Times-Lit.-Supp.* stuff about not "making full use of the possibilities of the medium."

What this means, in practice, is this—because the film (or TV) camera can register objects in motion, and can itself move about, any sequence in which the subject is not moving at supersonic speed in one direction, and the camera at the speed of light in the other is "just a photographed stage play" or in my case, a lantern lecture. Quite frankly, I went into the job with ambitions full of lengthy trucking shots of interiors, and wild pans of exteriors, but when we got down to talking about the shows with men who know Telly, these ambitions began to appear curiously academic and irrelevant. And also, I woke up in the night screaming, recalling 672] THE ARCHITECTS' JOURNAL for May 5, 1960







Academic Standards?



What are the architectural standards of acceptance of the Royal Academy? Above are three proposed university buildings and a house which suggest not just catholicity of taste, but no standards at all. At the top are the Physics, Lecture and Chemistry buildings for Exeter University, designed and drawn by Basil Spence, the newly elected RA and the President of the RIBA, which might be supposed, bearing in mind the essential conservatism of such a body as the Royal Academy, to represent a very good yardstick by which to measure the qualities of other entries. Below it is the most startling example shown of the work of a younger school; the proposed Department of Commerce

and Social Science, Birmingham University, designed by newcomers to the Royal Academy, Howell, Killick and Partridge. Composed of pleasant variations on Corbusier's themes attached to Guardi-like facades of precast structural balcony units, the building will be a startling addition to Birmingham's existing rich mixture of Aston Webb, Playne and Lacey and crude, early 20th-century blocks of various styles. Next is a most commonplace design for the Arts Block, Leeds University, by Lanchester and Lodge and finally a trivial design for a house near Salisbury, Rhodesia, by Philip D. Hepworth, to represent the modern dwelling. how Ber win view ful fact he pro

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m Pa le th qu th pi of Than le p p h g th how the McHale-Smithson epic Hauptstadt Berlin makes it as clear as a well-washed windscreen that architecture from a moving viewpoint ceases to be architecture (go careful with that space-time stuff, Corb's "observer who walks about" does not, in fact, view the architecture continuously as he walks but—check this on yourselves promenades from one more or less fixed viewpoint to another).

Using the full possibilities, unique resources, or what have you, of the medium means. in practice, Banham's dial for 17 minutes in 27. This is not commercially debased, cult-of-personality stuff, even though it is Television House dogma that what Telly has to put across is personalities. A long time ago, the great art-historian Erwin Panofsky, in one of the few think-pieces about moving pictures that is entirely free from the academic bit and National-Film-Theatre-type historicism and culture-snobbery, put his finger right on the crucial point about all moving-picture media. In his essay "Style and Medium in the Motion Pictures," he said-paraphrasing for the sake of brevity-that the motion pictures are not a neutral medium like clay or paint on which "the artist" projects an idealized concept, but deal in real things and real people.

In other words, the presence (effective or otherwise) of Reyner Banham or Sir Kenneth Clark, of Chiswick House, the UN building or Gatwick, is what matters, not whether or not the buildings were filmed on location or the effects of motion were created by studio manipulation, nor on how the nictures on the screen were composed. fine-art-wise. There seems to be some confirmation of this over on the BBC side, with Monitor, where they clearly worry about "the medium" and get rapped over the knuckles by their rather creepy fan-club of Sunday paper critics when they don't (as with the Michelangelo "interview"). Now Monitor has consistently funked architecture as such (though not architects) and Peter Newington, the staff genius over there, once told me that " Architecture dies the death on the midget screen!"

It doesn't, not if you concentrate on the architecture and forget that midget screen jazz. Television is, I take it, not a neutral medium of the sort rightly rejected by Panofsky, but a neutral channel (more or less) and the quality of what comes out at the consumers' end depends far more on the quality of what is put in at the other end, than what is done to it while it is in the pipe. A painter can make a masterpiece out of a trivial, even a boring, subject but with Telly you can tie the medium in knots and hang it from the Albert Memorial, and still not produce memorable work from worthless material. On the other hand, if the people and things at which the camera is pointed have star quality, presence or what have you, then little short of criminal negligence can make a poor product of them at the point of delivery.

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REYNER BANHAM

The Editors

RIBA COUNCIL ELECTION QUIZ

A^T this time of the year a number of prominent and not-so-prominent architects feel moved to stand for election to the RIBA Council. Is it self-aggrandisement, a sense of public or professional duty, or a desire to show off to clients and to help the racket of job-getting? No one knows, and all too often the characters themselves aren't telling.

In recent years the $A\mathcal{J}$ has dared to ask candidates direct why they were standing, with useful and informative results for that minority of voting members of the RIBA interested in the leadership of the profession (and where it is leading) and who remember to complete the ballot paper correctly.

To try to cut out cackle, and woolly generalities we are a king candidates to reply succinctly (300 words, maximum) to the following questions:

- (I) WHAT IS YOUR REACTION TO THE PILKINGTON REPORT* AND WHAT ACTION SHOULD THE RIBA TAKE NOW?
- (2) WHAT ARE YOUR VIEWS ON THE EDUCATION OF ARCHI-TECTS (WITH PARTICULAR REFERENCE TO THE TWO-TIER PROFESSION) AND THE BUILDING INDUSTRY?
- (3) WHAT IMMEDIATE STEPS SHOULD ALL ARCHITECTS' OFFICES TAKE TO IMPROVE EFFICIENCY?

We shall publish candidates' answers to these questions on May 19. Architects who have been individually nominated for election, and whose names we therefore do know, are asked to regard this as an invitation to write. We require replies by first post, Wednesday, May 11.

* For the benefit of those behind in their reading, this has nothing to do with the glass industry

ACADEMIC STANDARDS

The Royal Academy is supposed to be struggling hard to regain its reputation, a struggle which first showed results in the architecture room. But the progress begun there is not being maintained. Too many of the designs hung are of important buildings badly designed, the hack products of commercial offices.

In one way the hanging of these bad designs is useful. The watch dogs of architectural standards are made aware and can protest. But their inclusion is misleading to public taste and debases the RA. What is needed is another exhibition where the designs of news-worthy buildings can be displayed. Why cannot planning authorities exhibit all significant designs submitted for approval? Or, if space is limited, hang a selection and allow public access to the rest? This would enable the general public to participate more fully in architectural matters, where it is discerning enough to do so. The Academy would then be able to ignore merely "important" buildings and concentrate on hanging only the best, however humble. 674] THE ARCHITECTS' JOURNAL for May 5, 1960



WATTS MORE . . .

When I emerged from the RIBA's artificially (and badly) lit Henry Jarvis Hall after a one-day conference on " Is Daylighting Really Necessary?" (reviewed elsewhere) into sunlit Portland Place, I wondered where we were going in our obsession with technological achievements. A succession of lecturers had tried to show that daylighting was really an old-fashioned idea we should do best to forget. But they were making a plea for artificial lighting in special factories and laboratories -not housing, and no one would quarrel with that. Still, Alister Mac-Donald came near to advocating the scrapping of daylighting codes to get more office accommodation. LCC planners were quick to pounce on him and prove that plot ratio-and not daylighting control—restricted bulk of office building, and that there were already too many offices in central areas anyhow.

The best that H. C. Weston could say for 100 per cent. artificial lighting was that it was not harmful and that people accepted it if it was really necessary (like permanent blackouts in factories during the war). I prefer to stay oldfashioned and to get all the daylighting to rooms which require it—including offices—and to look upon artificial lighting as an important supplementary source of light rather than a substitute.

NASHIONAL HEALTH SERVICE

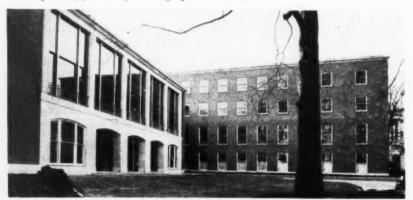
It is said that when the Royal College of Obstetricians and Gynaecologists wanted a new building they approached Frank Lloyd Wright to design it for them. They were so alarmed—the story goes—by the fee he asked for, that they gave the job to Louis de Soissons instead. If this is true, the photograph below must give us all a pang for what might have been.

The new building—costing £400,000 —stands on a splendid site facing the lake in the outer circle of Regent's Park. It has been designed "exteriorly to conform to the Nash Terraces"—which is certainly something Frank Lloyd Wright would not have considered doing. A meticulous copy of Nash on this site would not have been so bad, but this kind of conformity makes one hanker after a really modern building.

ROSIE'S ARE RED

Faber Birren, the American exponent of functional colour, has just been appointed colour consultant to Berger paints. Speaking at a lunch the other

The new building for the Royal College of Obstetricians.



day, he complained that architects were alone in being taught to think of form without colour. Only when their buildings were finished did they realize, often with dismay, that colour was needed. If they did the right thing, he said, they would think of colour first and of form afterwards. This, he argued, would not be to neglect functionalism, because colour had great functional significance.

This seems fair enough. But trouble begins once you get beyond broad principles (red for danger, green for rest, etc.) to questions of detail-and particularly to matters of mood. People differ in their response from year to year, calling for more of this shade in one year, less of that the next. So the colour expert has to turn from man of science to diviner. Mr. Birren is not worried about this. Evidently Americans enjoy having their hands held by a rather costly colour mentor. Englishmen, we suspect, don't: even when the cost is borne by a beneficent paint manufacturer.

BRITAIN IN BRASILIA

Now that those spokesmen of our day, The Times and commercial telly, have raised the question of the British Embassy in Brasilia, I must get my word in on behalf of the architects and other middle people (neither Top nor Pop). I need hardly remind you that we have put up one wrong Embassy building in Brazil already (that Neo-neo-palladian country house outside Rio). We can hardly afford to make another boob like that at Brasilia, especially as visitors coming into the city will pass through the Embassy zone and will be able to make odious comparisons between the architectural performances of the different nations represented there. (What a headache for a town planning committee this would be.) There is no need for our Embassy to be the largest or the most expensive, as long as it is as good as the rest. Here is a chance for a prestige competition, like the one for Churchill College-or even a bit of imaginative direct patronage. Action please!

INTERIOR MOTIVES

Misha Black's book on Public Interiors* is made much more than a

* Public Interiors by Misha Black. B. T. Batsford Ltd.

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picture book by the long preface in which he gives a penetrating analysis of the basis on which he has planned it. He begins by tackling the common criticism that the separation of the interior design of a building from the building as a whole is artificial and sterile. He regards the internal structure of an office, restaurant, museum, etc., as an "anonymous" enclosure to be clad with an interior which need have no direct organic or formal relation to the three-dimensional design of the building and is designed to provide a background and atmosphere for a number of unspecialized and "amorphous" people. He fails to make his case (in fact, half the illustrations in his book contradict it), but he says a great many wise things about the problems of architectural design today and about the relations of client and designer. His 250 photographs cover the widest possible range of the best and most characteristic work in the West today.

FUN FOR FUNCTIONALISTS

For the Modern Movers the ocean liner has always represented an ideal of functional design, free from any aesthetic preconceptions. Here then, from the pages of the New Scientist, is a nasty shock for them. "The bridge (of the Canberra) has been designed to help as far as possible in keeping wind off the decks behind it. Here, unfortunately, art and science are at loggerheads. A streamlined bridge structure is demanded by modern taste, but such a shape costs more to build, causes no significant reduction in the resistance to motion of the ship, and can complicate the problems of wind on the decks behind. Whereas the old rectangular type of bridge structure broke up the airflow completely, the streamlined one may tend to induce a vacuum in its lee, and this is filled by a strong current of air coming around one side or other." Sorry, shipmates

RFAC-PRO AND CON

G. A. Jellicoe, Louis de Soissons, Basil Spence, Frederick Gibberd, Lionel Brett, Sir William Holford, Sir Leslie Martin.

Does this list of names suggest a bunch of old fuddy-duddies? J. M. Richards, describing the work of the

RFAC at the AA last week, implied that it didn't. If the students had turned up (of course they never do to ordinary meetings) and if Eric Lyons had not been on his best behaviour, there should have been a wild yell of "Yes!" Because, impeccable though those names are to ASTRAGAL and his contemporaries as capable advocates of modern architecture and planning, they are not getting any younger and, whether they wish it or not, they are part of the establishment. And every ruling party merits an opposition. This was the only moment when J. M. Richards revealed a chink in his armour as he capably and lucidly described the workings of the RFAC. He referred to its essentially reasonable role as watchdog and as a source of liberal, instructive and humble guidance to designers, and not a rubberstamp body giving arbitrary approval or disapproval to designs submitted.

Mr. Richards who was at times very critical of the RFAC showed it as essentially a "long stop," helping both clients and architects, loath to tinker about with design and anxious to avoid being a dictator of taste. So capably did he put the Commission's case that only one voice was raised in real protest, and apart from a suggestion of more technical help for the RFAC the audience could give little positive criticism.

OBITUARY

The name of P. Morton Shand (who died last Sunday) is almost unknown to the younger generation of architects,

because he had been out of the architectural world since the war. But if anyone who wasn't an architect can be called one of the pioneers of modern architecture in this country, he can.

Shand was a writer—at his best a brilliant, provocative and polemical writer. He was also incidentally a *bon vivant* and wrote some memorable books on food and wine and knew more about apples than anyone not in the trade and most people in it. But after these came architecture. He was the first architectural journalist specializing in *modern* architecture, about which he had an international knowledge.

Through the pages of the *Review*, in the 1920s and 1930s, he introduced to English architects the work of all the great men on the Continent who were to become household names—Maillart, Gropius, Aalto and many others. They were his personal friends and Shand was the translator of Gropius's own writings. His special number of the *Review* on Steel and Concrete, published in 1932, was a classic. He was one of the founders of CIAM.

Shand was quarrelsome, prejudiced, temperamental and utterly delightful. All who worked with him (including Astragal) were devoted to him as well as admiring him. There was nobody like him and modern architecture owes him more than is ever likely to be acknowledged.

ASTRAGAL

These illustrations are of an "inn," designed by James Gardner for the forthcoming British exhibition in New York. The exterior suggests a clever-enough pastiche of a pub. The interior, however, looks a genuine reproduction of a genuine reproduction Tudor-style bar, complete with mock-adzed beams, and willow-pattern. Mr. Gardner is surely not doing the English pub tradition justice.







R. H. Armstrong, Manager, Spray Contracts Dept. Turners' Asbestos Co., Ltd.

Basil Spence, President, R.I.B.A.

Harold C. Shearman, Chairman, Education Committee, L.C C.

J. Austen Bent, A.R.I.B.A., A.M.T.P.I. Director of Housing, Manchester.

A. Ivan Nellist, A.R.I.B.A.

Mayfield Comprehensive School SIR: THE ARCHITECTS' JOURNAL dated April 7, 1960, contains a report on the above school following a site investigation made by members of your staff. The idea of such a survey after the building has been in use for five years is excellent and there is no doubt that the report will be carefully noted by architects and other interested parties throughout the country and also abroad, and for this reason the contents should have been very thoroughly checked because criticisms from such an authoritative source can be very damaging to any material or process.

We were very disturbed to note the inaccuracies contained in the section headed "Ceiling Finishes."

In the first place it must be noted that the specification was for sprayed asbestos with a normal pressed finish, *i.e.*, not decorated. This type of surface can best be described as industrial and presumably, therefore, would only be chosen for reasons of economy. In the vast majority of the great number of schools which we have treated a coloured textured surface has been specified, and this can easily 'be redecorated using distemper, etc., applied either by brush or gun.

Secondly, you state that very bad pattern staining has occurred at the joints in the asbestos cement flat sheets on to which the asbestos spray has been applied. Pattern staining as you should know occurs as a result of thermal differences in the construction and, therefore, if this was true pattern staining, the fault would appear as light strips against a dark background, *i.e.*, exactly the reverse. The correct explanation is that dust has accumulated on the back of

the asbestos cement sheets and due to the joints not being close fine particles of dust have slowly penetrated through the asbestos coating and the result is dark lines at the joints.

Your most surprising inaccuracy is that the sprayed asbestos cannot be decorated and you go on to say a sum of up to £2,000 is to be spent this year to cover up or replace the worst areas of failure. The total area involved is 2,111 square yards, and for less than £2,000 we could remove the whole of the sprayed asbestos and do the entire job again including a coloured textured finish. We merely mention this to emphasize the inaccuracy. Obviously no such drastic steps are necessary and indeed for approximately £500 we could apply our coloured textured finish in any desired shade to the whole area

The process consists of: 1. Apply a skim coating of asbestos by trowel. 2. Apply by gun a mixture of fine asbestos fibre plus the appropriate pigment.

You will appreciate that in carrying out item 1 any surface defects would be repaired. Future redecoration would be by normal methods as mentioned earlier.

In fairness we expect you will give this matter the same degree of publicity which you accorded to your original article.

R. H. ARMSTRONG

Manchester

We are glad to print this interesting comment on the criticism of ceiling finishes at Mayfield, but would point out first that there were no "inaccuracies" in our article on this point and second that no criticism of Turners Asbestos Cement was intended. The criticism was of the choice of this soft and vulnerable material in areas where little girls with hockey sticks could damage it. Of course, a harder surface would not have such good sound absorbency. On the pattern staining, the criticism was that the joints were not taped. What caused the pattern staining seems uncertain: Turners suggest that dust penetrated downwards, the LCC Maintenance architects think warm air carried dirt up and deposited it at the joints when penetrating between them. On the £2,000 quoted as the cost of replacement, there may be some misunderstanding. This is the sum being spent by the LCC, but how they are spending it is their concern. No doubt they will note Messrs. Turners' estimate of £500 with interest.-The EDS.

RIBA/Ideal Home Designs

SIR: I see that I am misquoted in the technical Press as saying that there is evidence that builders are cashing in on successful designs and making exorbitant profits.

The position is this. Each month, on the day after the RIBA Council Meeting, I hold a Press Conference and summarize what transpired. At the April Press Conference I reported on a brief discussion arising out of a leader in THE ARCHITECTS' JOURNAL (March 31) about the sale of houses at prices well above those given in "The Book of Small Houses." The high price of land had been cited as one reason and

possible profiteering by builders had been another; so I reported accordingly.

I have no doubt at all that the absurdly inflated price that can nowadays be realized on a good building site is a major factor; but I want to make it clear that I personally have no evidence at all of exorbitant profits by builders.

BASIL SPENCE

London The misquotation t

The misquotation to which Mr. Spence refers was not printed in the A.J.—The EDS.

Joint Training

SIR: It is incorrect to suggest (Editorial Comment, April 14) that the proposed college of architecture and advanced building technologies to be set up in Central London is not to include engineering. There has been no deviation from the intention to establish a college within which joint training for all partners in the architectural and building field will be provided. To this end the college will contain schools of architecture, building, engineering, surveying and town planning, each working at an advanced level and with adequate provision for research. The college will have its own governing body, and we are all well aware of the need to attract staff of high quality. That there will be associated with the college two others, viz., a college of engineering and science and a college of commerce and management studies, each concerned with other faculties in their own right, in no way detracts from the realization of a college which will be an entity in itself and provide the joint training which you amongst others have so long supported. HAROLD C. SHEARMAN

County Hall, London

We are delighted to receive Mr. Shearman's assurances, and in particular that the whole range of design and building techniques, and town planning, will be provided in the joint training. We would also plead for the inclusion of designers of building components. We would like to be able to give whole-hearted support to this most valuable and fundamental venture.—The EDS.

Unfair to Manchester?

SIR: I have read with interest your Progress Report on Sheffield in the current issue of THE ARCHITECTS' JOURNAL, particularly so, since Mr. Womersley, the City Architect, recently was kind enough to afford me an opportunity of seeing some of his work which I found to be of great interest. Regrettably, time did not permit me to see some of the schemes on which you have commented.

I shall be most interested to learn the basis of the comments in your concluding sentence, so unfavourable to Manchester and Liverpool, since, so far as I am aware, you have not, before committing yourselves to print, informed yourselves upon the problems which exist in my City and the proposed solutions to those problems.

Manchester

J. AUSTEN BENT

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We have examined the housing in both Liverpool and Manchester and we have seen nothing, regrettably, in these cities' post-war estates which is comparable with the work already accomplished in Sheffield. We note with pleasure, however, the hope contained in Mr. Bent's last sentence, and if future solutions are better than Sheffield's. we would have pleasure in retracting the implied criticism and in publishing the designs.—The EDS.

Electrical Fittings

SiR: After the million watt glare of the Electrical Engineers Exhibition it was refreshing to sit peacefully in a badly illuminated living room and study your review. It is tempting to think that architects could have saved themselves a valuable afternoon and at least half an inch of shoe leather by leaving it to someone else to sort the electrical sheep from the goats.

I was sorry however to see that no comment was made on fluorescent fittings, which appear to have made very real progress, being slimmer and for the most part better designed. Most exhibitors seemed determined to sell the idea of brighter and brighter light, on the grounds that the United States is still quite a number of Lumens ahead of us. Whether this matters or not is doubtful, as anyone who goes shopping in a Supermarket will know. In two generations it might produce a myopic slit-eyed nation incapable of seeing in normal daylight!

The review of switchgear and accessories was especially interesting but it would be nice to see some sign that manufacturers were putting their heads together to evolve a final and standard range of socket outlets guaranteed to remain common usage for the next twenty years. Whilst the thirteen amp ring main has steadily asserted itself as good practice for normal purposes the consumer is still faced with baffling variations in fittings. It is understandable, even to a very mildly electrical-minded architect, that fittings of varying amperage will stay, but need these vary between round pin and square pin, and need the spacing of the pins vary, as is still sometimes the case?

Would it be impossible for component manufacturers to hold a summit conference, or is standardization bad for business? A. IVAN NELLIST

Greenford.

DIABY

The Newness of Art Nouveau. Design and Industries Association meeting at Overseas House, Park Place, St. James's Street, S.W.1. Speaker: James Laver. 12.30 p.m.-2.30 p.m. MAY 5

RICS Post-Graduate Course in Cost Planning. At the TUC Building, Great Russell Street, W.C.1. MAY 9-12

Symposium — "The Planners and the Planned." TCPA Planning Forum at 28, King Street, W.C.2. Speakers are L. W. Lane, Derek Senior and Malcolm MacEwen. 6.30 p.m. MAY 9



EDINBURGH Diploma in Civic Design

A new full-time course in Urban Planning, leading to a Diploma in Civic Design, has been set up by the Department of Architecture at Edinburgh University. The course will be of one year, full-time, for architects, or two years for graduates in other approved disciplines. There will be a part-time thesis year in addition for all students. The course will be under the supervision of Percy Johnson-Marshall. The main object of the course is to educate intending city planners in the urgent problems of urban renewal, with special reference to the techniques of comprehensive redevelopment. Although all aspects of urban planning will be studied, attention will be concentrated on the complex problems of achieving a civilized environment in the light of such new developments as urban motorways, pedestrian segregation, helicopters and multipurpose buildings. Exemption from the TPI's examinations will be sought. The course will begin in October, 1960 and applications should be made soon.

RIBA City Growth

A paper on planning and controlling city growth will be given at the RIBA on May 17 by Senhor Luis de Guimaraes Lobato, the Portuguese planner. He is director of the Technical Division of the Gulbenkian Foundation and was responsible for the master plan for Lisbon.

TRAFFIC

The Motor Vehicle and Planning

What would be the nature of a town permitting the unimpeded use of cars at a level of two cars per family? The implication of this, with journeys to work of half an hour only, and car parks only 100 yards away from work or amusement, on a city of five million inhabitants will be described

by M. Elkouby, the French engineer, at the Institution of Structural Engineers at 5.30 p.m., May 9. The meeting has been organized by the British section of the French Society of Civil Engineers jointly with the Institution of Highway Engineers.

GOLD MEDALS Engineers and Surveyors

The Telford Gold Medal for 1959 has been presented to H. Ridehalgh by the ICE for his paper on Shoreham Harbour Development.

The RICS Gold Medal for 1961, plus £100, has been given to Professor P. H. White, holder of the Chair of Real Estate in the University of British Columbia.

BRITISH LIGHTING COUNCIL

Is Daylighting Really Necessary?

The one-day conference organized by the British Lighting Council and held at the RIBA on April 27 did not elicit any facts which would not have been already known by the moderately well informed architect. The conference was divided into three parts dealing respectively with daylighting codes, lighting techniques and physiological and psychological aspects, in this order. Alister MacDonald was the main speaker on the first subject. He attacked our existing daylighting codes (and the plot ratios which go with them) on the ground that, since natural lighting is widely variable, the daylighting codes cannot ensure any particular level of illumination at any time in any given position. Therefore, he argued, it is unrealistic to base our concept of density upon natural lighting. David Crompton, defending the LCC's approach to this matter, pointed out first that natural lighting was not the only or even the most important consideration which determined densities; second, that, in respect of lighting, one object of the codes was to ensure that existing buildings enjoyed a reasonable standard of daylight. Town planners were not always dealing with large areas of re-development. If they were to base the density of all new building at a higher figure which assumed that permanent artificial daylighting would be used, then this would deprive existing adjoining buildings of their daylight and compel them to depend on artificial light also. It is this consideration which (working the other way about) permits the LCC to encourage comprehensive re-development by offering higher densities where large sites are developed at one time.

Sir Thomas Bennett, summing up this part of the proceedings, pointed out that planning convenience and economy had already established a preference for the "thick" plan in at least three building types (office blocks, hospitals and department stores), that this plan made permanent supplementary artificial lighting inescapable and that

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it had been found to give rise to no complaints. The decision of when to adopt a plan form which would make "PSALI"* necessary was an architect's decision, as it involved the balancing of a number of diverse considerations, some calculable, others not.

The main contention of those on the lighting side appeared to be that artificial light was a better source than daylight for most indoor activities because it could be counted upon not to fall below a predetermined value. They conceded that it commonly lacked variability and that this appeared to be a capital defect; but W. R. Stevens, who gave the paper on lighting technique, promised that this variability could be supplied by artificial means. J. Longmore of BRS spoke of the experiments which he and Dr. Hopkinsont had carried out on PSALI, but these are concerned with the topping up of daylight by artificial light and not with the cutting out of daylight altogether. Unfortunately this topping up is apt to be more costly than a windowless installation, since the levels of artificial lighting have to be raised above what would otherwise be necessary in order to achieve an apparent brightness equal to that seen outdoors. Derek Phillips instanced the Aspro Nicolas factory.[‡] This, as readers may remember, is a windowless factory, but with "view" windows in certain spaces. The artificial lighting of the latter is not raised to daylight standards, with the result that those in view of the windows complain of gloom while those in the windowless parts to not. The last paper was given by H. C. Weston who, standing in for Dr. Floyd, the Consultant Physiologist of the Post Office, spoke on physiological and psychological aspects, but added no new evidence. The impression given by architects who spoke during the discussions was that they were opposed, almost to a man, to any general substitution of artificial for natural lighting.

Dr. J. W. T. Walsh took the chair for the second session, Richard Marsh, M.P. sponsor of a private member's Bill on office lighting for the third and Mr. A. E. Page, Chairman of the British Lighting Council, opened the proceedings.

TRAFFIC

Expensive Dive at Hyde Park Corner

A good tip for the next 28 months is "Keep out of St. George's Hospital." For during that period the new underpass will be under construction at Hyde Park Corner, with all the noise that such works entail. The LCC has graciously agreed with the hospital authorities that no work shall be carried on between 11 p.m. and 7 a.m. But during the other 16 hours of the day the noise is likely to be pretty bad. However, there will at least be no sheet-piling operations. Instead a new technique is to be used (it has already been used in Lucerne and Milan) whereby narrow trenches are dug and filled with Bentonite-a kind of Fuller's earth which

* PSALI-permanent supplementary artificial lighting for interiors. † See AJ, October 8, 1959. ‡ See AJ, July 17, 1958.

swells to form a type of temporary retaining wall.

The underpass, linking Piccadilly with Knightsbridge, will consist of two separate tunnels with common portals at either end. The tunnels, each wide enough for two traffic lanes, will pass either side of the escalator shaft leading down to the Piccadilly Line. The actual road works in the entire scheme which covers Marble Arch as well as Hyde Park Corner-are to cost some £3.000.000. However, £450,000 has already been spent on the diversion of sewers, mains and cables. This brings the cost of the underpass up to some £2,400,000-about four times the cost of the underpasses at either the Ace of Spades intersection (already completed) or the Western Avenue/Hangar Lane intersection (under construction).

Worth the cost?

It is very questionable whether it is worth spending £2,400,000-a sum which would pay for 8 or 9 miles of motorway in open country-on an underpass which is going to serve only a small percentage of the total traffic passing through Hyde Park Corner. The LCC engineers claim that it will serve 15 to 18 per cent-even though London Transport does not intend to route buses through the underpass. However, according to Road Research Laboratory figures traffic between Piccadilly and Knightsbridge is only 13.4 per cent of the total traffic-even when the buses are included. Excluding the buses brings it down to less than 12 per cent during the evening peak hours. The other 88 per cent of the traffic will have to fight its way through the six-sided roundabout.

The LCC engineers claim that the entire layout will be able to handle, without any control at the main intersections, traffic flows 60 per cent higher than those at the present time. This would mean a peak-hour flow through Hyde Park Corner of some 14,000 vehicles-with some 1,700 using the underpass, and over 12,000 using the roundabout! This claim is based on a most peculiar method of calculating the capacity of a roundabout, evolved by an LCC engineer, which notoriously produces very inflated figures such as would not be accepted by any traffic engineer. But whatever we think of this claim, it is clear that, in the view of the LCC engineers, the provision of the underpass makes precious little difference to the reserve capacity of the layout. It is indeed strange that the underpass should have been included in the scheme, since (as the last Minister of Transport told the last House of Commons) "all the experts took the view . . . that no underpass was neces-sary at all."

Worth the chaos?

Quite apart from the enormous cost of the underpass, and the noise its construction will make, there will be traffic chaos while it is being built. The work is to be done in five main stages; and during two of these traffic going West along the South Carriage Road will use a temporary viaduct which will lift it clear of the Eastbound traffic from Knightsbridge, which is to be diverted into the park via a temporary roadway. Not until Stage 4 will all the roundabouts

come into use and one-way operation be introduced on Park Lane and the East Carriage Road.

During Stage 1, which is to start on May 9. the end of Piccadilly, at the junction with Hamilton Place, will be reduced to less than half its present width: from about 130 ft. to about 50 ft. The LCC engineers admit that there will be a "little pinch point" here. That might be termed the understatement of the year-a police representative refused to confirm that delays would not be severe. It appears that the Minister of Transport's London Traffic Management Unit has had no hand in devising the traffic arrangements which were outlined at the LCC press conference: and the Ministry was not even represented at the conference. However, the Ministry cannot absolve itself from blame for the forthcoming chaos. They are, after all, paying the piper; and they could have called a different tune. They could, for instance, have insisted that the new North-South road (replacing Hamilton Place) should have been opened to traffic before the end of Piccadilly was narrowed to 50 ft. It would be better to spread the work over a longer period and avoid the chaos we now face.

NIGEL SEYMER

RIBA

Scholarship

The RIBA offers for award, in 1960, The Artists' General Benevolent Institution Maintenance Scholarship of a maximum of £125 per annum, available in the first instance for one year and renewable for two further periods of one year each. It is to enable orphans or sons or daughters of an architect or artist to attend an approved course at a recognized School of Architecture. Applications must be made to the Secretary to the Board of Architectural Education, R.I.B.A., 66, Portland Place, London, W.1, by May 27, 1960.

ZOO

Medical Institute

A grant of £100,000 has been made to the Zoological Society by the Nuffield Foundation to found an Institute of Comparative Medicine and to provide two senior research fellowships. A building for the new Institute will be designed by Richard Llewelyn Davies, Director of the Nuffield Foundation Division of Architectural Studies (and Professor-elect of Architecture in London University). He will work within the overall plan for the gardens prepared by Sir Hugh Casson and F. A. P. Stengelhofen, the Society's resident architect.

AA

Ventris Award

The Michael Ventris Memorial Fund Award for 1960, value £100, has been awarded to Peter Smithson for the Study of the Siting of Ancient Japanese Buildings, with particular regard to the street pattern.

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THE ROYAL ACADEMY: HORROR AND HOPE

The selectors of work for exhibition in the Architectural Room at the Royal Academy are under no compulsion to crowd the walls and stands with exhibits. It can only be presumed, then, that the selectors are convinced that the designs hung are worthy of study and emulation. Most of the work shown is of news value, because the interested public can see for themselves the horrors, inadequacies and imperfections which unselective patrons of architecture are causing to be built. Grateful though the would-be guardians of good design may be for the forewarning which the annual Royal Academy Exhibition gives, we believe that this is not the function of the Academy, which should at least have a consistent standard of design, even though it is not one with which the majority of people agree. At present its policy, if any, is to cater, it seems, for all tastes. It is, of course, superficial and inadequate to judge a building purely by external appearance, and to judge it from an architect's or artist's



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perspective makes the whole matter extremely conjectural. Nevertheless, the Royal Academy Exhibition could be of some use in helping to formulate public taste. To emphasize the point we precede the illustration of the better work in this year's exhibition with two pages of designs which certainly should never have been exhibited and often enough should not be built either. The two illustrations on this page make the point clearly enough.

The Architects' Journal for May 5, 1960

1679

2 Charterhouse Street and 40 Holborn Viaduct, E.C.1, by Sir T. P. Bennett, drawn by Philip Hepworth.



English Electric House, by Adams, Holden and Pearson, drawn by R. Myerscough Walker.

ROYAL ACADEMY EXHIBITION: HORROR . . .



Proposed "Hotel President," Russell Square, W.C.1, by C. Lovett Gill & Partners, drawn by Anthony Brandreth.



Convalescent Home and Flats, Bournemouth, by Arthur Bailey, drawn by J. D. M. Harvey.



Physics Laboratory, Durham University, by Easton & Robertson, Cusdin, Preston & Smith, drawn by Peter Sainsbury.



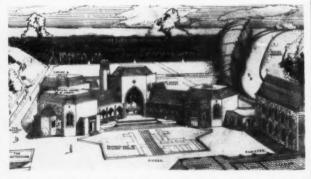
Wyndham House, Chard Grammar School, by E. Vincent Harris, drawn by J. D. M. Harvey.



New shop premises for Boots, Argyll Street, Glasgow, by Colin St. C. Oakes, drawn by J. D. M. Harvey.



New science building, Westfield College, University of London, by Verner Rees Laurence & Mitchell, drawn by William Suddaby.



Shrine of Our Lady of Mount Carmel and St. Simon Stock, Aylesford, Kent, for the Order of Carmelites, by A. Gilbert Scott, drawn by H. H. Laws.



New building at St. Mary's College, Durham, by Marshall Sisson, drawn by Peter Foster.

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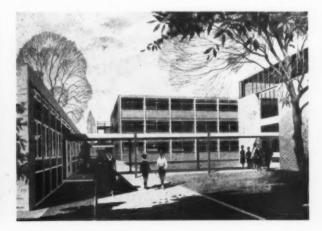
On the opposite page are targets for local branches of Anti-Uglies. Some are no different from what is being built, without causing complaint, everywhere. We condemn them here because in each case there is a factor which singles them out from the ruck. One design is for that rarity, a London hotel, which deserves the highest quality of design. One is a store for Boots, a firm too reputable to have such vulgar standards. Four are educational buildings where the clients, being, presumably, men of learning, should be more discriminating. The block of flats, because of its great bulk, demands more sensitive treatment, and the crude monastic buildings are unworthy of the architect's great name. On this page, and following, are designs which show at least competence, occasionally arouse hope that a deadly environment is at last being improved (as at Bristol University, below left) and sometimes arouse feelings of delight.

Top: Extensions to Trinity College, Carmarthen, by Architects' Co-Partnership, drawn by Alan Morrall.

Above, left: Proposed Lecture Hall, Sidgwick Avenue, Cambridge, by Sir Hugh Casson, Neville Conder & Partners, drawn by Sir Hugh Casson. Above, right: Department of Civil Engineering, Imperial College of Science and Technology, by Norman & Dawbarn, drawn by Roy Latham. Below, left: Proposed School of Chemistry for the University of Bristol by William F. Johnson, drawn by Lawrence Wright.

Below, right: Whitefriars Secondary School, Harrow, Middlesex, by Elie Mayorcas, drawn by Peter Sainsbury.

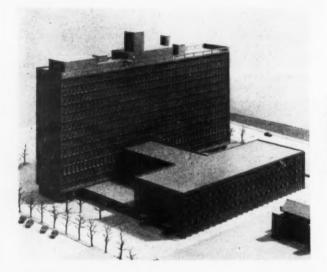




ROYAL ACADEMY EXHIBITION



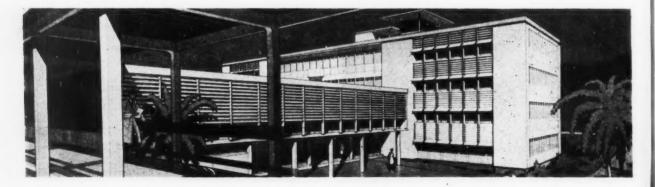




Top to bottom: University of Southampton Arts building with Theatre, designed and drawn by Basil Spence. Department of Natural Philosophy, University of Aberdeen, by Edmund

D. J. Mathews, drawn by Roy Latham.

New Western General Hospital, Hull, by Yorke, Rosenberg & Mardall. University College Hospital, Jamaica, Specialist Ward Block, by Norman & Dawbarn, drawn by Lawrence Wright.



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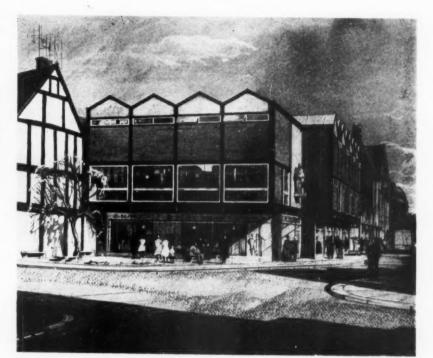
Right, top: The Corn Exchange Site, Stratfordupon-Avon, by Frederick Gibberd, drawn by Frank Weemys.

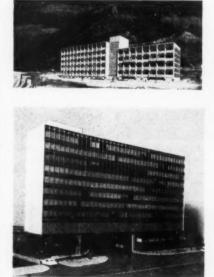
Right, bottom: Knightsbridge Centre Development, by Guy Morgan and Partners, drawn by A. H. Shearing.

Below, top to bottom: Married Soldiers' Quarters, Gibraltar, by Covell and Matthews, drawn by A. H. Shearing.

New Office Premises in Vauxhall Bridge Road, Victoria, S.W.1, by Gordon Tait, model by W. Starzewski.

Western District Office, G.P.O., Rathbone Place, W.I, by Alan Dumble, of the MOW, drawn by William Suddaby.





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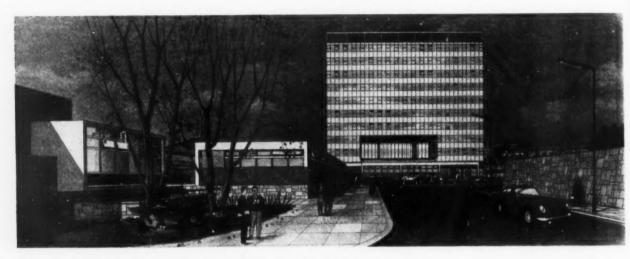


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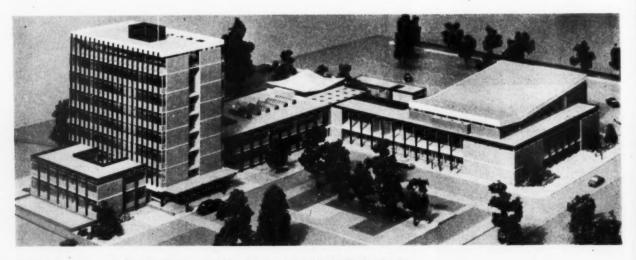
ROYAL ACADEMY EXHIBITION



Basildon Town Centre (Anthony Davies, Chief Architect), by Basil Spence (Consultant Architect), drawn by Basil Spence.



Plymouth New Station, by Howard E. V. Cavanagh, drawn by Lawrence Jackman.



Proposed Civic Centre at Hayes, Middlesex, by Clifford E. Culpin, model by McCutchon Studio.

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THE INDUSTRY

This week Brian Grant describes a combined clock and calendar, an oil-fired air heater, an oil-fired boiler, metal roof decking, plastic wall coverings, a range of bedroom units, and a new ceiling panel.

Wall clocks

The illustration below shows a wall clock and calendar produced by Smiths and intended for use in banks, booking halls, offices and other places where the date may be of as much importance as the time. Calendar characters are in Gill Medium type black on white p.v.c. rolls, or alternatively reversed white on black. The clock can be driven either by a synchronous motor, from a master clock or eight-day clockwork: the date is changed by knobs at the side. Dimensions are 174 by 114 in., and the price is 221 13s. 5d. including purchase tax. (English Clock Systems, 179 Great Portland Street, London, W.1.)



Smiths wall clock.

Industrial space heating

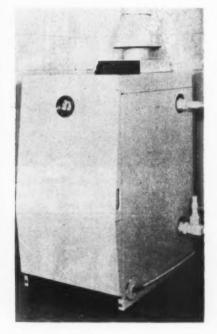
Colt Ventilation have recently introduced a range of Turbo-Static oil-fired air heaters for industrial heating. They are produced in three sizes with outputs of 250,000, 350,000 and 500,000 B.Th.U. per hour and burn gas oil. The combustion unit has been specially designed for the purpose and consumes a minimum quantity of preheated combustion air in a relatively small combustion chamber in which there is a considerable degree of turbulence. Since this chamber is under pressure the heater is not affected by outside atmospheric conditions and almost any type of flue can be used. The air to be heated is provided by a centrifugal fan and passes upwards through a heat exchanger to emerge through louvres at the top of the unit. The controls are fully automatic and there are the usual safety devices so that the oil supply is cut off if the burner flame is extinguished. With fuel oil at a little less than 1s. 4d. a gallon the makers give a figure of 12.5 pence for every 100,000 B.Th.U. actually dissipated into the heated area, this figure including the necessary current for the fans. (Colt Ventilation Ltd., Surbiton, Surrey.)

Oil-fired boilers

Valor have just announced two new oil-fired boilers which sell at £65 and £77 10s. The smaller (SA 25) is suitable for use with a 30-gallon cylinder and will also provide 50 sq. ft. radiation, while the larger (SA 35) will provide 150 sq. ft. with a cylinder of the same size. Maximum fuel consumptions are 1 and 2 pints of fuel per hour and the makers claim an efficiency of 80 per cent. Both boilers have a blue flame burner, the pilot flame being a turn-down device for economical running while the oil control valve incorporates a safety non-flood device and a thermostat to keep the water temperature anywhere between 140 and 180° F. Tappings are provided on both sides of the boilers. (Valor Ltd., Erdington, Birmingham.)



Colt Turbo-Static air heater.



Valor SA35 oil-fired boiler.

Ibstock Facing Bricks

Were specified for the extensions to the Printing Works of ODHAMS (WATFORD) LTD. ST. ALBANS ROAD, WATFORD, HERTS.

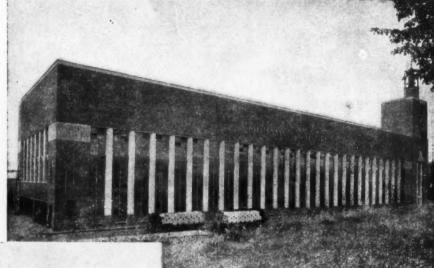




Photo by courtesy of O shams (Watford) Ltd.

Architects Yates, Cook & Darbyshire Contractors W. & C. French Ltd.

Ibstock Multi Golden Brown Handmade facing bricks were chosen for this fine modern extension to the Photogravure, Letterpress, Bookbinding and General printing works, and neatly completed for Odhams (Watford) Ltd. Architects everywhere specify Ibstock facing bricks for durability and appearance.

Photo by courtesy of Odhams (Watford) Ltd.

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Appli

technical section

Metal roof decking

Ruberoid have just introduced " DecorDek," an insulated form of galvanized steel roof decking the underside of which is formed from p.v.c. coated steel sheet so that the decking provides its own coloured ceiling finish. The colours so far available are light green, light blue, grey, yellow, cream and white in either a smooth or an embossed finish. The finish is easily cleaned with soap and water and is stable in temperatures up to 110° C. and for limited periods up to 180° C. It is difficult to give prices but the manufacturers suggest an average figure of 65s. per square yard, including fixing, weatherproofing and insulation. (The Ruberoid Co., Ltd., Commonwealth House, New Oxford Street, London, W.C.1.)

Wall coverings

1.C.I. have just published quite an elaborate book of Vynide and Rexine samples for walls, panelling and display work. A life of 10 or 12 years is suggested as reasonable, and the material can be cleaned with soap and water, while it is also proof against fading. Application to walls is no more difficult than with ordinary paper, with the advantage that the standard width is 50 in. as against the normal 22 and the material is strong enough to be slipped about into its final position without any risk of tearing. Trimming round doors and switches is with scissors as in the usual wallpaper practice and there is no particular difficulty over adhesives. (I.C.I. Ltd., Leathercloth Division, Hvde, Cheshire).



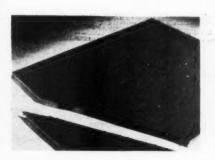
Application of I.C.1. Vynide wall covering.

Bedroom units

The standard kitchen units which the English Joinery Manufacturers Association introduced soon after the war have now been followed by a range of bedroom units. These are made in standard widths of 20 or 40 in., and 2 and 4 ft., and almost any length can be obtained by using suitable combinations of unit, while they can be built up to suit either 7 ft. 6 in. or 8 ft. ceilings. Bedrooms can thus be provided with any necessary wardrobe, cupboard, drawer or tray furniture. Doors are flush lipped and drawer fronts are lipped over the framing. All visible parts are made of hardwood and are finished for polishing, as are also the insides of cupboard doors and the fronts of trays. All floor mounting units have a recessed plinth, and the doors of single units are made either hand. EJMA will provide on request a list of firms licensed to make the units. (The English Joinery Manufacturers Association, Sackville House, 40 Piccadilly, London, W.1.)

Ceiling panels

The Building Boards division of Bowaters has just produced a ceiling panel which offers an alternative to plastering. It is known as the D/C, standing for dry construction, and has a face of bevel edge leather grained 1 in. hardboard bonded to a 1 in. frame which is stiffened with a cross strut. The panel is backed with an aluminium faced waterproof kraft paper providing a ³/₄ in. air space, a U value of 0.22 being given when the panels are used with in. t & g floorboards. The panel is fixed direct to timber joists with 14 in. lost head nails and the sides of the panels are grooved to take hardboard splines. Holes can be drilled for such things as lighting fittings. and since the framework of the panel is closely bonded to the face the removal of part of the frame does not destroy the strength of the panel as a whole. Covering capacity is 24 panels per square yard of ceiling area and the makers suggest that supplying and fixing should cost about 15s. a square yard, not including any decoration. (The Bowater Organization, Bowater House, Knightsbridge, London. S.W.1.)



Bowaters D/C panel.

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7.79 practice STANDARD CATALOGUE

Architects' Standard Catalogue. Fourteenth Edition, 1960-61-62. (The Standard Catalogue Co. Ltd.)

The 14th edition comprises five volumes of which the first includes Indices and General Technical Information. Anyone using the catalogue for the first time is well advised to read carefully the "Directions for using \ldots " on page v. Without this guidance the new user may easily lose his way amongst the coloured paper and the section and page numbering.

It is encouraging to see that of the 1,547 manufacturers whose products are included, a large number have attempted to provide technical information useful to the architects and that this has been presented in a clear. concise form. The publishers claim that the trend is increasing, but it is not doing so nearly fast enough and a completely comprehensive reference catalogue can be provided only when all manufacturers take this line. Too many of them still fall back on the familiar note "technical information on request." Such criticisms, of course, do not apply to the editorial introductions to the various sections which architects will find most helpful.



8.74 surveying and specification BUILDING ECONOMICS

Fuel Economy by Window Insulation. By Thomas A. Markus. Article in 1960 issue of Fuel Economy Review, published by the Federation of British Industries.

This article proposes a method for calculating the economic effect of installing double glazing. The author assumes an amortization period of 25 years and an interest rate of 6 per cent. With this as the financial background, he reduces all cost items to a rate per annum, setting the extra cost of double glazing against the savings effected by the use of a smaller heating plant and less fuel. This is meticulously done. Tables are given which modify U values for glass-according to orientation. exposure, slope, thickness of air space between panes and frame type. Two examples are given. One a 24,000 sq. ft. office block in the South of England where double glazing, using hermetically sealed units at an extra cost of 9s. per sq. ft., involved an additional annual charge (all things considered) of £192 over the 25-year period. The other example was a 200,000 sq. ft. factory in the North of England where double patent glazing (extra cost 3s. per sq. ft.) gave an annual saving of £413 over the 25-year period.

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SPECIALISTS

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19 CONSTRUCTION: COMPLETE STRUCTURES

timber hangar at Gatwick

A new hangar at present under construction at Gatwick Airport has, according to its builders, the largest clear span for a parallel chord portal frame in timber in Europe. At a time when timber used structurally on a large scale is recapturing the attention of architects and engineers in this country after an eclipse of a century and a half, this building has some significance. The spans, which are 150 ft. between supports, are effected by means of portal-type frames fabricated and erected by Beves and Co. (Structures) Ltd. The detailed design of the frames was carried out by Beves's chief engineer, H. J. Andrews, using the Swedish HB system of construction. The hangar is for Overseas Aviation Ltd., architects P. and D. T. Myers. Main contractors are J. Jarvis and Sons Ltd.

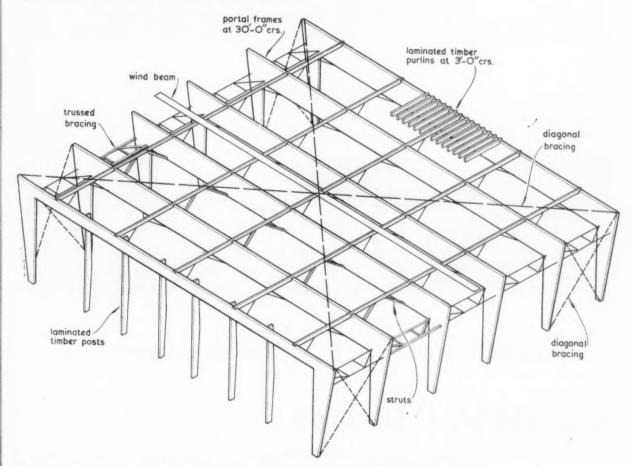


Fig. 1. Isometric drawing of the frame of the hangar at Gatwick showing the principal structural elements.



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Fig. 2. One gable and three intermediate frames in position, with the thicker lines of the laminated timber posts at the gable end visible against the thin web of scaffolding.

technical section

Some idea of scale can be gained from the 12-in. and 10-in.-deep purlins projecting over the frame in the foreground.



Fig. 3. Plan of the hangar. Hangars 2 and 3 will be erected at a later date. Spaces between hangars will be used for workshops.

It was decided to use timber for the structure after considering various alternatives such as a steel or a precast concrete frame. Cost studies by the architects showed that timber was competitive with other materials and has the advantages of ease of working and simplicity of fixings, facilitating the application of cladding and internal fittings such as lighting. As well as this, it has the added advantage of lightness of weight, an important factor at Gatwick where the foundation soil has a relatively low bearing value. The advantages which most influenced the choice of timber, however, were (1) freedom from maintenance and (2) good fire resistance.

All exposed external faces of the structural timber are to be clad with diagonal Western Red Cedar boarding left in its natural state. Apart from the pleasant appearance of weathered timber of this type, the architects are satisfied that it will be durable and, consequently, will save a considerable sum in painting and maintenance costs

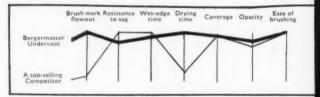
The Fire Research Station at Boreham Wood has given a one-hour fire rating to the form of timber

construction used at Gatwick. This means that, should a serious fire occur, the occupants will have one hour in which to remove aircraft from the building before its collapse. This should be viewed in the light of two things. Firstly the aircraft housed in a hangar will usually be worth thousands of pounds more than the hangar itself, making their extrication the prime consideration in case of fire. Secondly an unprotected steel frame would be unlikely to survive more than one-sixth the time of this timber structure before possible roof collapse. It is the significance of this period before collapse which is often overlooked in the choice of materials. Actually to satisfy the requirements at Boreham Wood for this rating the designers have had to provide an extra thickness (or layer) of boarding to the web sections of the frames although this extra layer is not required for structural purposes. Both the designers and the TDA believe, in fact, that the structure in its present form is adequate for a rating in excess of one hour. Should fire occur and cause partial damage repairs can be made quickly and easily.

The Architects' Journal for May 5, 1960

How well does Bergermaster paint perform?

Better than the best of the rest. If that sounds like a facile bit of megalomaniac advertising chit-chat, look at the photos of undercoats and gloss alongside. These were arrived at during routine laboratory development tests against representative top-selling competitors. They weren't meant for publicity, but we'd be silly not to use them.



Our tests show, briefly, that Bergermaster has balanced seven conflicting but desirable paint characteristics. And that no one else has managed to do so to the same degree. The result is a tractable undercoat/gloss combination which produces an immaculate and durable finish. All other paints in the Bergermaster systems are of an equivalent standard, and the systems provide a finish for virtually every purpose.

Does it offer a better colour choice?

Yes. Bergermaster have the BS2660 101 range ready in stock of course, and a number of exclusive additional colours for 1960. For these, Bergermaster consulted a specialist who wasn't fresh out of art school with a thing about the Fauvists, and tempered his advice with their own research findings. We think the new colours are vital, subtle, *sympatico*, bold and right. Some of them have names of the Atoll Sunrise school, but this is a trivial irritation and their quality and function is unimpaired.

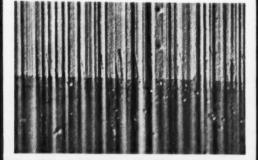
What sort of service do you get?

A good one, free consultation and assistance with specification to site. Architects who aim to mix white from two spare Bergermaster blacks can call the Architectural Service Department for a snap judgement on their prospects. Books of divisible colour specimens, specifications and the like are readily available. Supply is now fast and dependable.



PROOF BY PHOTOGRAPHY- these shots, highly magni-

field, are absolutely unretouched or rigged in any way. Random samples were painted onto identical test surfaces (vertical) with identical brushes under identical conditions. See how (above) Berger Undercoat goes on smoothly so that its top coat inherits no brushmarks, and neither coat suffers sagging. You get a first class finish, in contrast with, for example, that shown in the lower photo; a top-selling brand. Both show dust marks, inevitable when you magnify without retouching. Which we've done.



To: Architectural Service Department,

Berger Paints Ltd., Berger House, Berkeley Square, London, W.1. (Stotland only) Berger Paints Ltd., 5 Park Gardens, Glasgow, C.3. I like your nerve and I'd like to know more about your paint. Please send—

- () your representative, with bag of tricks() the Bergermaster Specification book
- () the wallet of 101 + exclusive colours

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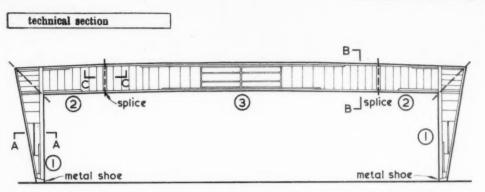


Fig. 4. Typical portal frame, which is transported to the site in five parts (see dotted lines).

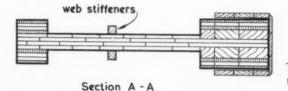
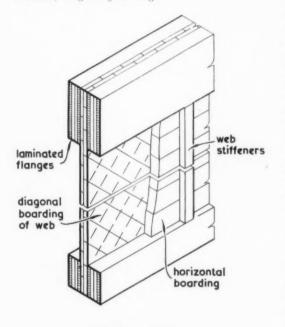
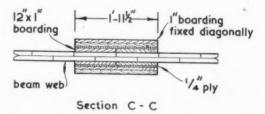


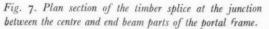
Fig. 5. The column or "leg" section of the portal frame. The outermost lining on the larger (internal) flange is not structural, being merely a casing.



Section B-B

Fig. 6. The beam section of the portal frame, showing the diagonal web boarding and the outer lining of horizontal boarding to satisfy fire requirements.





The main structure of the hangar consists of six timber portal-type frames, Fig. 1, each approximately 171 ft. long by 43 ft. high and spaced at 30 ft. centres. The frames support wall cladding (patent glazing and heavy duty corrugated asbestos cement sheets externally, and asbestos cement sheets internally with insulation between), the huge " concertina" metal doors at one end through which the aircraft pass, and a flat roof (laminated timber purlins at 3 ft. centres, compressed strawboard slabs and asbestos based felt roof covering with a layer of chippings). The roof slabs are lined on the underside with asbestos paper to satisfy Class 1 spread of flame (Thermal Insulation Act). The beam section of each frame is cambered, rising 9 in. on the underside and 18 in. on top at centre span. The west gable frame (at the end opposite the doors) differs from the others in that it is not a clear span, being supported at approximately 20 ft. centres in its length by HB laminated timber posts, Fig. 12, which also carry the wall cladding. The beam section of this frame is 5 ft. deep minimum, whereas the remainder are 10 ft.

The HB System

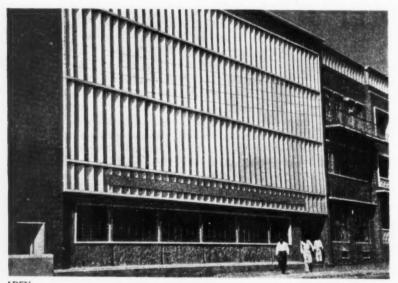
The method of construction of the portal frames is known as the HB System, after a Swedish engineer, Hilding Brosenius, who devised it. Briefly the HB System consists of an I section comprising laminated timber flanges and a web which consists of two layers of boards laid diagonally to the length of the member and at right angles to each other, Fig. 6. The flange laminates are glued together and fixed to the web by means of pattern nailing; the web is strengthened by web stiffeners. Basis of the design is that the flanges take all bending moments and the web takes shear.

To facilitate transport and erection each frame was fabricated in five parts, Fig. 4, at Beves factory at Shoreham and transported to the site. The two vertical or "column" parts of the frame (1) are fixed to the two end parts of the beam section (2) on the ground by means of pattern nailing, pneumatically driven home, Fig. 9. These are then erected and

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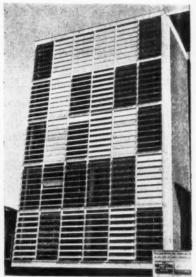
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IN THE COMMONWEALTH

The Architects' Journal for May 5, 1960 [690

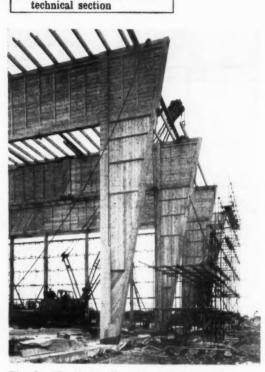


Fig. 8. The "column" sections of the portal frames, showing the pattern nailing and also the horizontal and vertical boarding used to satisfy requirements for a onehour fire rating.



Fig. 9. Nails being pneumatically driven home into one of the portal frames on site before erection.

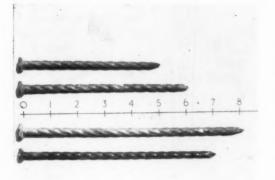


Fig. 10. A selection of the square groove twisted galvanized nails used in the frames. Scale is in inches,

temporarily stayed in position whilst the centre part of the beam (3) is hoisted up by crane. Connection between this centre section and the end parts of the frame is made by means of metal and laminated timber splice plates which are pattern nailed by site fixers. The base of each column section of the portal frame is fitted with a fabricated mild steel shoe, Fig. 17, to which it is bolted. This shoe has short lengths of m.s. round rod welded to the underside, Fig. 18, and these rods fit into a preformed hole in the concrete floor slab and are grouted in after final erection of the frames.

The posts at the west gable wall are laminated timber of HB construction, the inner side being cambered, Fig. 14. These posts also are fitted with metal shoes at the base, similar to those of the frames themselves. They are secured to the beam section of the portal frame by means of bolted mild steel angles and brackets.

Purlins, which are mostly 12 in. \times 4 in., and 10 in. \times 4 in., are notched over and secured to the top flanges of the portal frames by means of mild steel angle brackets and coach screws. Most of them are laminated from two sections (*i.e.*, either two 12 in. \times 2 in. or two 10 in. \times 2 in.) glued and screwed together. The full run of each purlin (the length of the building) is made with shorter lengths spliced together and coach screwed and occasionally fitted with metal connectors, Fig. 16.

Bracing

An important element in the structural design is the bracing, which is shown in Fig. 1. In the plane of the roof itself are two systems. The first is described as a "wind beam" and is 2 ft. 1 in. wide. It comprises 2 in. thick laminates glued together and coach screwed into the tops of the purlins. It is the same thickness as the compressed strawboard slabs and therefore is flush with the roof surface on to which the felt covering is fixed. The second roof bracing consists of two mild steel straps each running diagonally across the roof between the four corners of the building.

Between each portal frame on either side is a brace at the level of the knee joint. This takes the form of a flat truss in the horizontal plane and is made up in laminated timber, Fig. 13. It is supported at the portal frames by means of mild steel brackets. In this position it reduces the effective length of the column part of the portal frame. In addition to this there are mild steel diagonal cross braces at both end bays on either side, Fig. 1.

Bracing to the compression flange of the beam part of the portal frames is effected by means of diagonal timber struts bolted to the purlins and fixed to the bottom flange, Fig. 16. This occurs at every eleventh purlin (33 ft. centres).

Conclusions

The timber used for structural purposes is Scandinavian Whitewood throughout, except the purlins



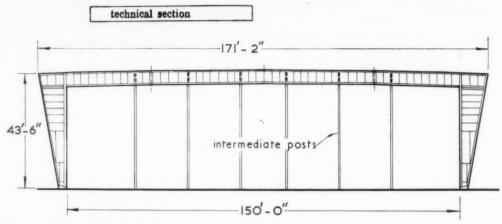


Fig. 11. The west end gable frame.

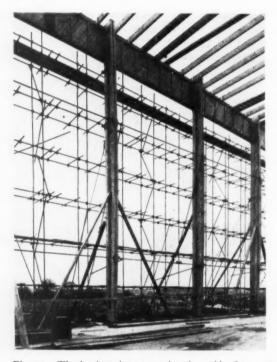


Fig. 12. The laminated posts under the gable frame at the west end. The inner face of these columns has a slight camber.

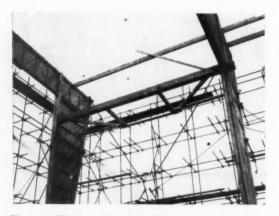


Fig. 13. The trussed horizontal bracing between portal frames.

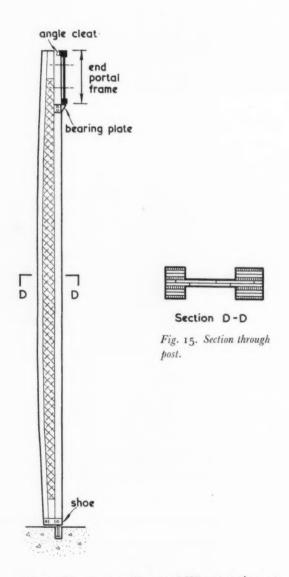
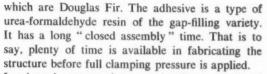


Fig. 14. Side elevation of a typical HB post at the west gable end. These posts provide intermediate support to the gable portal frame and carry the wall cladding.

F

3



Laminated construction permits large structural members to be made up from quite small pieces of timber. Stress grading of timber means that material with a high grading is used only at points of maximum stress and less costly material can be used elsewhere.

The Gatwick hangar is designed to hold two Argonauts placed diagonally. The architects have made provision, however, for housing one Britannia, nose on, instead of the two Argonauts, should this need arise. At the centre of the east gable portal frame, above the doors, a small section is hinged and, when opened, permits the tail piece of a Britannia to pass through. In order to gain maximum cubic content for this plan the wall cladding along the north and south elevations is fixed to the outer flange of the portal frames. Thus it is inclined outwards at an angle of less than 90 degrees to the horizontal. The architects say that this has the additional advantage that, in case of fire, the walls would tend to collapse outwards.

Although there is a strong tradition of large-scale timber structures in Scandinavia we, in this country, have yet to work out our own æsthetic, and it is probably too early, with the comparatively few timber structures yet built, to discern a consistent line of development. At Gatwick the problems at least are defined and the architects have adopted a positive approach in their efforts to solve them. The end portal frames, for example, are clad with Western Red Cedar diagonal boarding. This, of course, means that the structure has been covered. But at the same time its form is not concealed; the purpose of the diagonal boarding is not to hide an unsightly material, but to provide a flush, weather-resistant surface which it would be economically unreasonable to build into the structural element itself.

One attractive feature of a timber structure is that it is dry construction and this, coupled with relative ease of working compared with steel, for example, points to faster construction time. Factory prefabrication of virtually all the structural elements helps ensure that work on the site is reduced to the minimum-a highly desirable objective. At Gatwick the total building time was originally estimated at 16 weeks with four weeks for erection of the frame. In fact this is not quite being achieved, partly due to the inevitable inclement weather (the site is a quagmire after rain and requires constant pumping). On April 10, for example, winds reaching 40 knots necessitated lashing down the structure which was then only half erected and braced. Other factors which have caused delays include a dock strike on the Canadian seaboard which held up the supply of Douglas Fir for purlins.

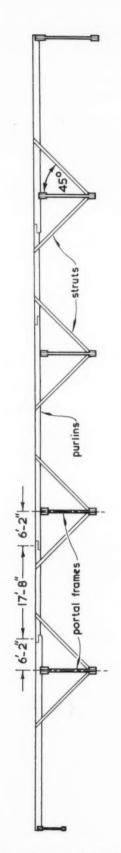


Fig. 16. The system of struts to the purlins (approximately 33 ft. centres) which brace the portal frames.

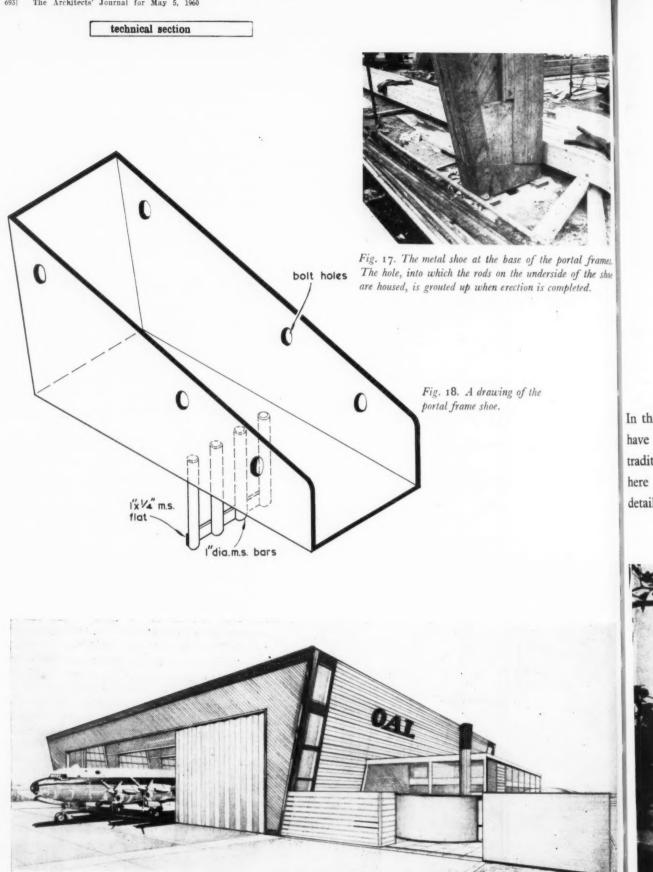


Fig. 19. The hangar at Gatwick. The buildings abutting the north elevation house workshops, canteen, and boiler house.

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CHURCH HALL

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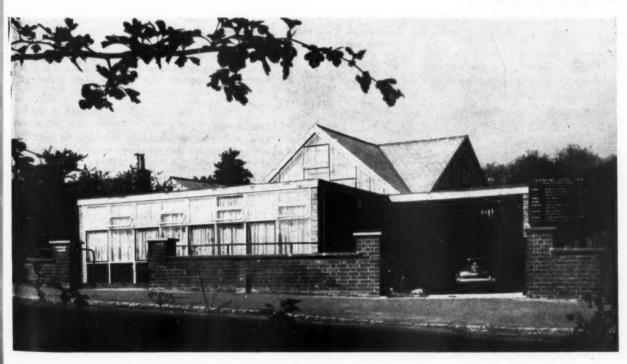
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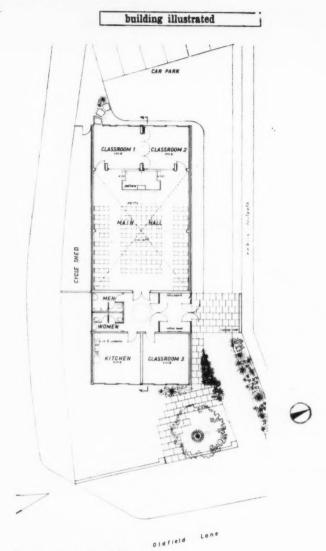


e shoe

In this small and simple building for the Christian Brethren in Greenford, Middlesex, the architects have tried to carry forward the tradition of Nonconformist religious buildings in modern terms, a tradition which combined dignity with simplicity. They also had the task of doing it very cheaply, and here too they have been highly successful, although unfortunately no cost analysis is available for detailed exploration.

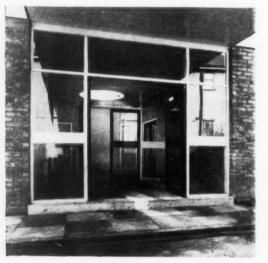
General view from Oldfield Lane.





Site plan [Scale: 1," = 1' 0"]

Looking in through the entrance doors. The double doors to the hall can be seen on the right. A domelight over the lobby lets in quite adequate natural light by day, and surrounds the electric light which illuminates the hall by night.



CLIENTS' REQUIREMENTS

The clients required a building of a modest dignity to be built within a very small budget, to replace a temporary building on the site, which had been there for twenty years. Boundary wall and gates were built in the time of the old building.

The building was to have a fairly large central hall, four classrooms, for Sunday school and other purposes, with a kitchen in one of them; lavatory accommodation, a car park and space for bicycles.

PLANNING AIMS

All the needed accommodation is contained within a single rectangle because it works well that way and was found to be by far the most economical solution. The two classrooms at the rear of the Hall can be made into one by opening a sliding folding door between them. They can also be thrown into the main hall by opening a pair of up-and-over doors, which fold up onto the ceiling, when they become part of the main hall at larger meetings. There is a small tiled baptistry in the floor of the hall. The cost included heating, kitchen equipment, hardwood floor in the hall and venetian blinds to the gables. The electronic organ and amplifiers were made and installed by the clients, who are also carrying out the landscaping of the site.

SUMMARY

Ground floor area: 2,370 sq. ft. Type of contract: RIBA without quantities. Tender date: June 1957. Work began: July 1957. Work finished: April 1958. Tender price of foundations, superstructure, installations and finishes: £7,654. (No external works in contract.) Approximate total cost: £8,130.

Work below ground floor level

R.C. strip foundations with ground beams under glazed screens at east and west ends. 6 in. concrete floor slab.

STRUCTURAL ELEMENTS

Frame or load-bearing element

None except r.c. frame at west end of main hall to provide large openings required. R.C. ring beam at top of main hall walls, to restrain outward thrust of feet of steel valley beams.

External walls

11 in. cavity walls of second-hand multi-coloured stock facings with hollow clinker concrete blocks to inner skin. 44-in. block back-up walls to sill height on east and west elevations.

	solid wall	0.635	
Ratio:		-	
	floor area		т

Windows

1

Glazed screens at east and west elevations and lavatories of softwood, with top hung vents. Gables to main hall have aluminium patent glazing.

				0
	windows	0.	60	
Ratio				

floor	area	I

External doors

Glazed Ratio:	softwood. doors		0.27
Ratio:	floor area	-	I

Roof cons Pitched i valley be

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Glazing

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Ceiling

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Deco Wall Door Skirt varn

Roof construction

Pitched roof over main hall: timber rafters on steel RSJ valley beams. Area: 1,170 sq. ft. Flat roof elsewhere: timber joists with wood wool covering screeded. Area: 1,200 sq. ft.

Roof lights

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Domelight over lobby, area: 16 sq. ft.

Glazing

32 oz. sheet glass generally, obscured in lavatories 1 in. Georgian wired rough-cast in lower panels of east and west glazed screens.

PARTITIONS AND FITTINGS

Internal partitions

Type of partitionArea of each type9 in. brick50 sq. yds. $4\frac{1}{2}$ in. brick27 sq. yds.3 in. clinker block9 sq. yds.

Screens

Softwood glazed screens with swing doors at lobby. Similar screens to east and west elevations. Skeleton flush overdoors between main hall and classrooms 1 and 2.

Sliding/folding partition (skeleton flush ply doors) between classrooms τ and 2.

Internal doors

7 single, 4 pairs of double.

Ironmongery

Satin anodised aluminium door furniture and window fittings generally. BMA floor springs to swing doors. Shaft and lever window opening gear to opening lights in gables of main hall.

Fittings

Kitchen: B.S. type softwood cupboard units, stainless steel sink.

Meter cupboard: B.S. type softwood cupboard unit. Venetian blinds to inside of gables to main hall.

FINISHES

de

hall

of

Floor finishes

Type of finish	Area in sq. ft
Muninga wood block	2,000
Red quarry tiles in lavatories	100
Blue black quarry tiles in lobby	55

Wall finishes

2 coats plaster. White glazed wall tiling as splashback behind sink unit in kitchen.

Ceiling finishes

in. matchboarding in main hall.
 in. plasterboard and skimcoat elsewhere.

Roof finishes

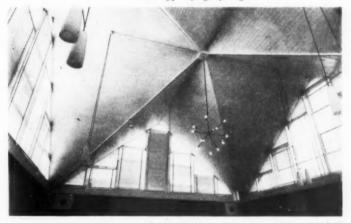
Asbestos cement slates on pitched roof (1,500 sq. ft.). Built-up bituminous felt, 3 layers, with granite chippings (1,200 sq. ft.).

Decorations

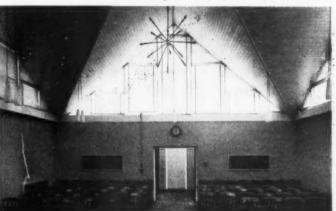
Walls and ceilings generally, emulsion paint. Doors and frames, painted. Skirtings, barge boards and cedar fascias externally, varnished. The main hall, from the doorway. The venetian blinds which cover the four gables can be adjusted to give the required amount of daylight, and add greatly to the charm of this very simple hall, their stripes seeming to echo those of the painted matchboarded ceiling. Behind the small platform the "wall" within the r.c. frame is removable, consisting of two up-and-over flush doors which go up into the ceiling of the two classrooms beyond. The baptistry is concealed under the floor in front of the platform when not in use.



Focus on the "winked" ceiling, showing the two types of light fittings.



Looking back to the entrance of the main hall.



building illustrated

SERVICES

External plumbing

Rainwater goods, vitreous enamelled steel. Precast concrete gutter units along east and west walls. Bituminous felt lined zinc valley gutters to pitched roof and machine bent weatherings and drips.

Hot and cold water installation

Light gauge copper with capillary fittings. Galvanized steel inlet pipes to baptistry.

Cisterns in tank room over lavatories supplying all fittings. Sink water heater (gas).

Connections provided for future multi-point gas waterheater for lavatories and baptistry.

Sanitary fittings

Type of fitting	No. of each type
Stainless-steel sink	I
Fireclay lavatory basins	2
Urinals	2
W.c.s	3

Heating and ventilation

Main hall, balanced flue gas convectors, controlled by room thermostats. Elsewhere, clients provided gas radiators. Internal temperature: 60 deg. F.

Air change, 1 per hour main hall, 2 per hour elsewhere. " U " of walls, 0.17.

"U" of roof, 0.20 approximately for flat roofs; 0.30 approximately for pitched roof.

The back of the building is a repetition of the front, but here the windows of the two classrooms require no curtains. These two rooms are divided by a sliding folding door and can be turned into one.

Gas installation

10 points for space heating, water heating and gas rings in kitchen. Generally run in chases in floor slab.

Electrical installation

Type of pointNo. of each typeLighting3313-amp. ring main sockets6Light gauge conduit chased in walls or floor and roof.

Drainage

S.G.W. branches to existing drains with new brick manholes as necessary.

Otner elements

Tiled baptistry (6-in. \times 6-in. white glazed tiles) of 6-in. r.c. construction covered by hardwood trap doors flush with woodblock floor.

Entrance canopy, as flat roofs, but with matchboarded soffit, supported on 9-in. screen wall at end.

CONTRACTORS

General contractor: Roger Malcolm Ltd. Sub-contractors-Structural steel: Matthew T. Shaw Ltd. Patent glazing: S. Warner & Son Ltd. Felt roofing: Wm. Briggs & Son Ltd. Woodblock floors: Vigers Bros. Ltd. Electrical work: D. G. Pamplin. Venetian blinds: Danaura Ltd. Gas installation: North Thames Gas Board. Sanitary fittings: Adamsez Ltd. Glazed screens, overdoors: Morgan & Partners Ltd. B.S. cupboard units: E. & H. Grace Ltd. Door gear: P. C. Hender son Ltd. Window opening gear: Tomo Trading Co. Zinc drips: Builders Iron & Zincwork Ltd. Rainwater goods: Vitreflex Ltd.

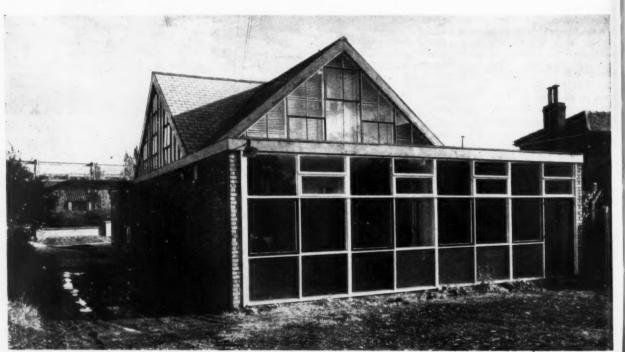
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The Architects' Journal for May 5, 1960



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EXAMINATION FEES

The RIBA's profit on an income of £18,889 from examination fees levied during 1958 was nearly £6,000. The Finance and House Committee's Report* blandly concludes that, "The Institute does not make more than a small profit on examinations." We assume that this statement was made in good faith and can therefore only conclude that the RIBA practises self-deception. £6,000 made on an income of nearly £19,000 represents a thirty per cent profit. The Profession in general, it has been rumoured, has a profound lack of awareness in financial matters. Such delusions as this do nothing to reassure us. We consider this to be a handsome profit. However, as the RIBA appears not to value the money highly surely the Institute could afford to redirect it to the students, who, we do not doubt, would appreciate a reduction of almost a third in their examination fees. How about it Mr. Spence?

This is, however, more than merely a question of quantity. We accept that students should pay for the cost of their examinations. But we feel that the principle of using the examinations as a source of revenue is wrong.

The examinations are equally for the benefit of the profession and the student, as they are merely a means of maintaining a standard. The student is in no way indebted to the RIBA on this score beyond the actual cost of running the examinations.

It is an invidious practice to exploit the meagre incomes of students in this way, particularly as there is no guarantee that the students will ever, in fact, become fully qualified members of the profession. Further, is it not illogical that hard-up students should be forced to subsidize by any amount the finances of their relatively-well-off elders?

We condemn the practice of running the examinations at a profit and deny that the profit extracted is small.

STUDENT CONTRIBUTIONS TO RIBA

Students contribute about £36,000 annually to the RIBA. This is about twenty per cent of the Institute's income. What do we get in return for this enforced generosity on our part? The truth is that we enjoy the same facilities as associate members. That is to say that we have full use of 66 Portland Place. This may satisfy the associate members but we are not sure that it satisfies us. It is difficult to make full use of Portland Place when one is studying perhaps in Birmingham, Manchester, Liverpool or Edinburgh, and yet there are many British architectural students in places such as these. British students cannot afford to maintain the luxury of a London club which they are rarely able to use.

We realise that student interests are ultimately identical with those of the profession as a whole. We realise that indirectly we benefit from the activities of the RIBA. But we feel that we have to pay a heavy price to this end. We feel that we are taxed out of proportion to the benefits we derive, and out of proportion to our incomes.

We pay through the nose for very little in return. It is a luxury which we cannot afford.

*Details of the Finance and House Committee's Report on Examination fees are given on p. 700.

Monthly supplement

The BASA Editors The Building Centre Store Street London, WC1

STUDENT'S VIEW

The RIBA has recently reconstituted its Board of Architectural Education. Its 12-15 members include two heads of recognised schools, ordinary members of the profession and two representatives from the Ministry of Education. We hope that in its new, very much abbreviated form this committee will prove to be a potent body -it has after all terrific opportunity. It seems unfortunate that the student is still not represented. After all, education consists not only in teaching but also learning. It takes two to make a quarrel, etc. . . . Is it too much to hope that this committee might seek expert advice on the training that those teaching architecture should have? Imparting knowledge to others is skilled work. It requires ability which usually needs developing, rarely being just a God-given gift. Most universities run teachers' training courses. Might not this type of training benefit those intending to join the staff of a school of architecture ?

At Liverpool University, the School of Architecture has recently elected its student President for 1960-61. We offer our congratulations to John Ritchie. John takes over from Rodney Hutcheson to whom the Liverpool School is indebted for his enthusiastic leadership during the last twelve months. There was a surprisingly high turn-out of voters, nearly 90 per cent of the school's students exercising their franchise. We hope this enthusiasm is both maintained and turned into tangible results.

For the second successive year an experiment in working in groups has just been completed by fourth year at Liverpool. A scheme for the redevelopment of Bootle Civic Centre and Shopping Precinct was evolved. The buildings of which it consisted were designed by individual groups in accordance with the master scheme.

Generally students and staff emerged battle-scarred and weary, thankful that what they had found to be a trying experience was over. Dissatisfaction with the finished scheme, with their partial failure to work together and with this type of programme as preparation for producing a thesis next year, was common. Particularly disappointing to us was the fact that there was no attempt on the part of either staff or students to try to ensure that next year the same mistakes are not repeated. In the next BASA Supplement we aim to publish a detailed report attempting to evaluate this type of school programme based on working in groups and to advise on its successful implementation

During the last two terms the Liverpool society has been running regular Friday evening events including lectures, dances and films. Regularity has resulted in good support. Well done.

Recently the Architectural Students' Association of Dublin College of Technology organized an exhibition supplemented by a brochure. The college has only 60 students which makes this achievement all the more honour to them. Although there are relatively few of them they are obviously an active group, and a challenge to the rest of us! It is reported from Ireland that the Dublin School's past activities have consisted of fortnightly lectures on various subject by architects, artists, designers and photographers, and of tours to new and old buildings, to factories and workshops, and to studios. For the last two years, there has been an annual feature to focus attention on the work of the school, and to provide a project on which the entire student body could work. The first feature, in 1957, was a display float in the St. Patrick's Day industrial parade. The float consisted of a steel space frame containing exhibits pertaining to the theme "Ireland Builds," and although it was designed and built in three hectic days and nights, it was highly successful, attracting considerable interest and publicity.

Last year's feature was less adventurous, and was in the form of an exhibition of students' work. The exhibition contained drawings, models, sketches and paintings, and also examples of the practical subjects included in the course, such as small articles of furniture in metal and timber. Slide shows of modern buildings, mostly European, were given continuously.

This is the fourth appearance of the new style BASA Supplement. We intend that the supplement should act as a link between students, and between students and the world at large. To be effective we rely on your active support. The Editors must be kept informed. Remember your views will carry far more weight expressed through the columns of the Supplement. We feel that through the Supplement student opinion will speak with more authority and command more attention.7 The success or failure of this opportunity is in your hands.

STUDENT.

LETTERS TO THE B.A.S.A. EDITORS

OUTLET

HIGHER ENTRY STANDARDS

SIR: The Institute has suggested that there are likely to be fewer applicants for entry into the profession because of the higher standard of entry soon to be enforced. On the contrary, I think that the higher entrance qualification will legitimatise the profession in the eyes of many. The low standard of entry caused people capable of a higher standard to consider architecture to be too menial a profession. People capable of the higher standard will be encouraged to choose architecture where previously they would have chosen a profession of " university standard."

At Liverpool School of Architecture two A level subjects and a foreign language at O level have long been insisted on as a minimum entrance standard. And yet applicants outnumber places by two to one. Also the number of applicants increases.

The higher academic standard required means no drop in numbers only a change in the qualifications of entrants to the profession.

IAMES ROUSSEAU London, N.6

SIR: Student view BASA Supp. 3.3.60 stated that "two architectural schools have their own journal." We don't know how many other schools that have magazines were upset by this apparent lack of information by STUDENT-but perhaps it is the schools themselves who are to blame for not using the opportunities for central publicity which BASA now offers.

The Bartlett School produced OUTLET I last year as the constructive expression of the general dissatisfaction existing towards "the system." We wanted to break down the isolationist policy of the school by tapping the potential of the whole college . . . Sociology, Anthropology, History, Philosophy, Slade, Engineering, Town Planning. . . .

That this has been difficult to do is in part a measure of the paradoxical estrangement of an all-embracing subject like architecture from its constituent parts.

We believe that these aims are worthwhile-the more schools that try to increase the RANGE of stimuli on the architectural student, the better it will he

And by the way OUTLET 2 will be on sale at the end of May and can be obtained from the address below.

> ROBIN C. MOORE MICHAEL CASSIDY LOUIS MARIO HELLMAN

Editors, OUTLET Bartlett School of Architecture

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BASA monthly supplement

RIBA EXAMINATION FEES

According to the RIBA annual accounts students contributed $\pounds_{25,394}$ in examination fees to the Institute during 1958. The annual accounts also revealed an "apparent profit" of $\pounds_{19,563}$. This was felt by many to be excessive. Consequently an undertaking was given to review examination fees.

Following prolonged consideration, the findings of the Finance and House Committee were published (presumably with the blessing of the Council) in the April edition of the RIBA's Journal.

The committee argues that the expenditure shown in the accounts, $\pounds 5,831$, covered only direct expenses. It omitted the cost of such items as staff salaries, administrative services and accommodation rental. The committee's report sums up the situation neatly, stating that: "The expenditure figure shown in the accounts is therefore highly misleading." It was estimated that the real expenditure on examinations during 1958 was $\pounds_{12,900}$.

Regarding income from examination fees the committee assures us that we have once again been misled by the annual accounts. The Probationers' enrolment fee, the committee points out, involves no examination. It should therefore be regarded as an entrance fee. By this means the RIBA's income from examination fees is "adjusted" to $\pounds_{18,889}$.

Thus on examinations the Institute's income for 1958 was $\pounds 18,889$, while its expenditure was $\pounds 12,900$. The RIBA's profit on this department was therefore nearly $\pounds 6,000$.

THE BEAUX ART SYSTEM

Pierre Bussat qualified at the Geneva School of Architecture. He has worked in Paris and the Local Authority Town Planning Department at Geneva where he is now in private practice. Pierre will be in this country for six months studying standardization particularly with regard to the correlation of the various aspects of architecture. Pierre's formal architectural training was based on the Beaux Art System which he briefly describes and criticizes.

This is the first in a series of articles which we intend to publish devoted to the various schools of thought prevalent in architectural education. We would like to thank Monsieur Bussat for producing this article in spite of language difficulties.

The Beaux Art training is founded on the conception of the architect as the man of genius, individuality, originality and imagination are considered to be of primary importance, and are developed for their own sake, without relation to reality. The more mundane view of the architect catering for the complex needs of society is rejected. Such needs are regarded as undesirable limitations on the creative freedom of the architect.

Because of this attitude, technology in architectur[©] is regarded as an imposition to be hidden quietly away. Scientific knowledge is never exploited as an integral element in design. Thus there is no effort to develop a contemporary aesthetic. To think in such terms would be regarded as a betrayal of Beaux Arts allegiance to the past.

Allegiance is given to history as a static concept, rather than a dynamic part of a development culminating in both the present and the future. Beaux Art Architecture is the art of re-creating the glories of the past using history as a pattern book.

The Beaux Art escapists emphasize the lack of reality in their dream world by their preoccupation with presentation. The reason for drawings should be that they are the most suitable means we have of explaining a scheme. They should be simply a convenient form of communication having no intrinsic value of their own. However, this view is not that of the Beaux Art tradition in which illustrations have come to have more significance than that which they represent. Consequently drawings have become an end in themselves. The building is never taken beyond the purity o1 its initial conception.

The climax of an architect's life by Beaux Art standards is not in practice but in his life at a School of Architecture. One's life at school is looked upon as a unique privileged experience being totally unrelated to reality. Beaux Art education is not a means to an end but is the end itself. Programmes within schools are unrealistic and rarely of a type met in practice. The realities of practice are not prepared for, but are avoided for as long as possible.

Permeating all Beaux Art thought is the idealistic struggle for absolute artistic freedom unimpaired by the limitations of reality. Logically, this means that good architecture is possible only within a school of architecture, where designs need never be defiled by being developed beyond the stage of their initial conception.

Feelings of responsibility to either the student or to society are not felt by perpetrators of this tradition. Remorselessly, they feel that it is just too bad if the student-architect is unable later to escape being caught up as a cog in the machinery dealing with the needs of the existing society. It is merely unfortunate that he may lose faith and become embittered by having to face problems for which he is unprepared. It is unfortunate that finally he may lose interest in the profession because he is unable to realize the false ambitions with which he has been copiously endowed.

Finally I ought to add that the Beaux Art system is by no means the only school of thought which exists on the Continent. However, it is enough that it exists, an education based on the brilliance of man developed for its own sake towards no other end.

SECOND BASA CONFERENCE ON ARCHITECTURAL EDUCATION to be held at BALLIOL COLLEGE, OXFORD 5 p.m. September 19 — 5 p.m. September 21, 1960

Details of the programme will be announced next month



Thoughts for the conference

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Much of what is bad in schools today stems from the wrong thinking of the Art Movements of the last 100 years. Perhaps the worst offender has been the Beaux Arts system, described in essence by Pierre Bussat, above, a system which concerns itself with the cultivation of genius and neglects the real problems of society. Another influence has been the Art Nouveau which, having created for itself a symbolism unrelated to reality, degenerated into the decorative work, examples of which can still be seen on buildings of the last ten years. Similarly, the Arts and Crafts, excellent in intention, a breath of fresh air at the beginning of the century, which had great influence on the Modern Movement on the Continent, became in England folksy and picturesque, a playing with textures. Lethaby, one of the few Englishmen who understood the significance of the Arts and Crafts movement in relation to modern production techniques, was a voice in a wilderness of Chunky "Cottage" sideboards, fake Chippendale and " Adam" bookcases.

In order that the effect of these movements may be seen in perspective, a study of the historical background of architectural education is being made by a research group which will present its findings to the next conference as one of the topics for general discussion.

Why is it that the clear thinking of the modern movement of the 20s has not resulted in a more fundamental reappraisal of the problems of architectural education? Perhaps part of the answer might be found in the lack of trained men to follow up with research the ideas of Le Corbusier, Mies van der Rohe and the other pioneers, which would have enabled the architect to understand and use modern scientific and industrial techniques as the painter uses his brush. Attempts to introduce reform in architectural education are frustrated as a result.

Another important aspect of this problem is poor working facilities in the schools. A limited survey, carried out by members of Cardiff School of Architecture, has shown that libraries are inadequate, and even such basic necessities as studio and exhibition space and common rooms leave a lot to be desired, while often laboratory and research facilities are non-existent. BASA intends to help put this right, firstly by carrying out a detailed survey of school facilities, and secondly by comparing these with the facilities made available for training in other professions. The survey will find out what equipment each school possesses and what funds are available for buying new books, workshop and laboratory machinery, etc. The information collected will be confidential and will contribute to a general report to be presented to the conference assessing how the lack of facilities affects the efficiency of teaching. We hope to show that in view of the present huge investment in building, the country cannot afford to neglect the education of the architect if it is going to get value for money.

It is intended that the papers given at the conference should introduce the next phase of BASA discussion and research. They will concern themselves with what the architect does in practice, how he uses his time, what portion is taken up with design, working drawings, general coordination, etc. and how this should affect his education; what technical subjects such as structures, general services knowledge of production and organizational techniques should be in the syllabus and how they should be taught; what importance should history, English, sociology, economics and mathematics have in the curriculum. This will lead on to other questions, such as how examinations affect school work. The ultimate aims will be to make an assessment of what the balanced architectural education should contain.

> HILARY CHAMBERS President

BASA monthly supplement

YOUR OWN INTERESTS, AREN'T THEY?

Ken Baynes A.R.C.A. on Anti-Ugly Action







I certainly would not have thought twenty months ago, when Anti-Ugly Action was formed in a Kensington public house, that I would ever be able to write about its aims and difficulties for architectural students safe in the knowledge that they will, at very least, have heard of it, and with a reasonable chance that, if they are Londoners, they will have taken part in one of its demonstrations. The success of AUA points quite clearly to the fact that when it was formed it was expressing a very general feeling of discontent about architecture. Remember it was post-Aldermaston, but pre-the real march fever that is gripping us now, so it can claim to be part of the start of the latest bunch of liberal protests that are just about the most encouraging thing to happen in British politics since the 1945 elections.

When we started off the feeling was just starting to gain ground, in nonprofessional circles, that since the end of the war the architects had somehow or other sold out on the public. In spite of, perhaps even because of, the army of small controls and checks that had been established during and after the 39-45 holocaust, very very little post-war building was fit to stand on the bombed sites that were left, spaces that had been purchased not so much with cash as with blood. First the developers sold the public up the river, and second, with a few honourable exceptions, the architects behaved with lack of foresight, responsibility or social conscience. The results are to be seen in every city up and down this country, and that is what Anti-Ugly set out to shout about, what it set out to say was wrong. Anti-Ugly is no specialist body, quite a number of us are architectural students, and we have come to place great value on the advice and assistance of a number of professional architects,

but essentially we should prefer to be thought of as carrying out the duties of an informed and interested public opinion, which, thanks to the peculiar bias of our educational system, does not exist in its natural form.

Our first basic claim is this: the outside of a building is the concern of the general public as well as the man who commissions it. Alone among the arts architecture has to be looked at by people whether they wish to do so or not, there is no booking of seats, no paying of entry fees, the bloody horrors are there, stuck up in the public streets, inescapable and deadly. We set out to try and point out to the public that it was the victim of a gigantic aesthetic swindle; to our amazement there are signs that the poor old public is not willing to lie down while an unholy alliance of big business and dishonest architects ruin, forever, its environment. Long before we got going one of the few brave men in England, Ian Nairn, pounced on the subtopians and warned them of what was happening to them; the same rot of dishonesty and cant is effecting individual buildings and this is where Anti-Ugly wanted to make its protest. A protest in part made necessary by the RIBA's absurd restrictions on architectural criticism. There has been no criticism of architecture in any way comparable with that in other arts; AUA believes that a building can and must be subjected to the same kind of criticism as an Opera, for architecture is not, and never can be, a science, even though it must draw on a multiplicity of technologies and skills. And at this point, brother, if you are going to say that architecture is not an art, then you might as well stop reading this and be damned to you.

To start with, AUA saw itself as a catalyst, stirring up trouble, getting

publicity for bad architecture into the press and on to TV, an operation which reached its high spot with the agitation for an Enquiry into the Monico site development where AUA organized a meeting between M.P.s and architectural critics. As this went on the need for more intellectual backing was felt and studies in various fields were undertaken; at present Mr. William Wilkins, our Chairman, is at work on a 12,000-word analysis of the failure of architectural legislation since the war, which will be published by the Fabian Society. To clear up one point; it has been said that our criticisms are ill informed, that we do not pay sufficient attention to the difficulties imposed upon architects by their clients, and by regulations, nor to the internal function of the building. To this we say, we ARE concerned ONLY with appearance because this is where a building impinges on the GENERAL public, its internal functioning is a matter between the patron and his architect; further, we would say that whatever else a building does it must look well FIRST, that this is the whole essence of the architect's role, why HE is employed and not an engineer. As for difficulties, let it be whispered that the architect can always refuse a job that is impossible to carry through satisfactorily, and that those architects who constantly point out the problems of the regulations are begging the question if they think that this can absolve them of responsibility for their failures-rather than grumbling at AUA for its lack of understanding, they should join it in a stinging attack on the legislators. As I think this point of ill-informed criticism is an important one, I am including in this article as a sort of appendix, an extract from the evidence that we presented to the Monico Site Enquiry, so that the kind of analysis that we have done, from



time to time, on the appearance of buildings, can be seen, and criticism perhaps allayed. In any case the final test of AUA is an empirical one-think of any building that we have demonstrated against, is there any one that we should not be better off without? To sum up, AUA was formed as a catalyst to encourage criticism of pseudo and bad modern architecture, its aims were to get publicity and eventually to make effective protests. These are still its aims and AUA will continue to protest about individual buildings whenever the time seems ripe, but to this we are going to add another decidedly more difficult aim. We shall aim for a change in the appalling legislative burden under which the architect works, and we shall aim for a reduction in the secrecy surrounding plans and projects; I believe we could succeed, there is every sign of parliamentary concern over just these matters; we could succeed, but only if everybody who has a stake in architectural honesty and the future of our environment makes him or herself felt. May I suggest that as a start everyone who reads this article, and feels the importance of these last points, writes now to his M.P. or Mr. Henry Brooke, pointing out the badness of current architecture and urging him to give some of his time to a study of this problem, and further to point out to him the bad effects of the secrecy which now surrounds the publication of plans? Plans must be published before they are passed, or protests will invariably be too late. Good Lord, it's in your own interests, isn't it?

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Extract from the evidence presented by Anti-Ugly Action to the Monico Site Enquiry.

(Evidence was prepared by William Wilkins, assisted by Ken Baynes.)

Quite simply it is our case to point out the ugliness of this building, it is a case therefore which amplifies a statement that this building has no significant internal relationships. Not significant as opposed to purely fortuitous, but significant in the sense that the relationships do not add into an accepted standard of expression, a standard made necessary by communications need for lucidity.

The elevations which we are considering, have throughout their short life, been described as a tower block on a podium, even though the lines of emphasis in the upper block make a square and this is not a tower. The activity, indeed malignance, of the square can be proved quite simply by pointing out that two equal sides, at right angles to one another, will always be evident in the southern elevation, and that this will make a shape completely without direction, a form without function in relation to the podium. To say that the projecting central panel will break the malignance of the square would not be accurate, in southern elevation it is a shape that will be internal to the square, and anyway the lower edge of the central panel wil¹ substantially reinforce the lower edge of the square.

Subconsciously the square seems to have nagged at both Sir Howard Robertson and Mr. Booth, for despite their eulogies they both wished that three floors might have been added. We are led to believe that neither of them actually knew the upper block was a square! It might be argued that the square sticks up and therefore fulfils the function of a tower, but a square can have no direction of itself and can only act as a foil to another direction. Because the square is supported and stuck up to prominence, and is also centrally placed, this building is found featuring a foil, and this to a large extent explains why it is so exceedingly unsatisfactory.

The evidence continues through an analysis of all the relationships inherent in the Southern elevation and from them draws conclusions as to the failure of the building. The evidence is long, the extract short, but it may serve to show that AUA has, at least, tried to inform itself on those matters with which it is concerned—the appearance of buildings and the health of our environment.

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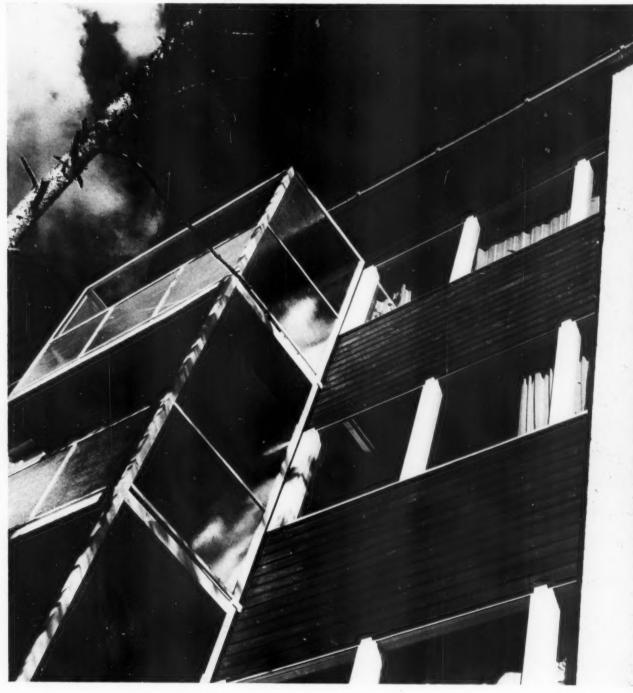
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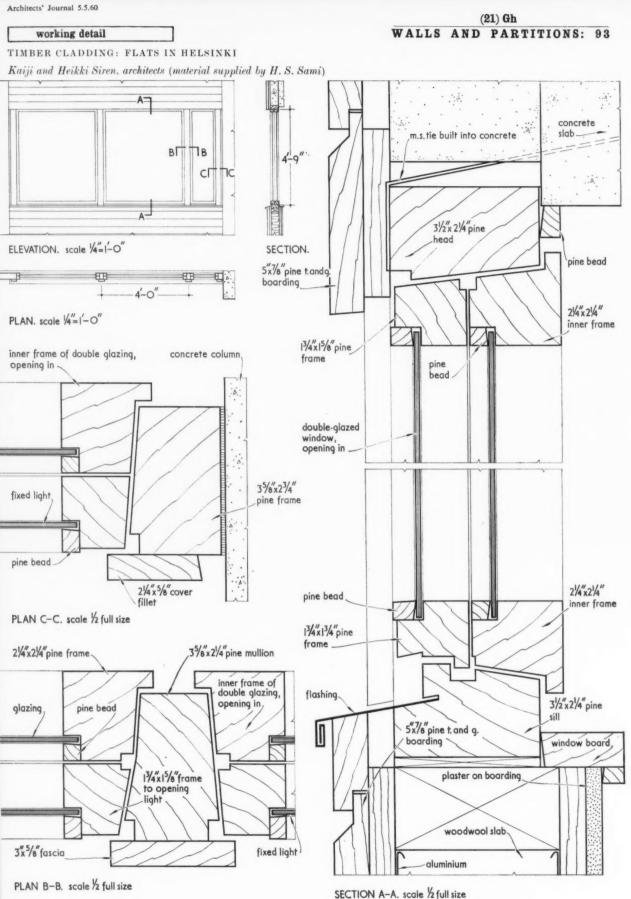
working detail

TIMBER CLADDING: FLATS IN HELSINKI

Kaiji and Heikki Siren, architects (material supplied by H. S. Sami)



This adaptation of traditional timber cladding to multistorey construction has given rise to a number of modifications in expression. The most important of these are the virtual disappearance of the window head and the substitution of a metal flashing for the projecting sill. Note (on the drawing) the detailing of the inward-opening double-glazed lights.

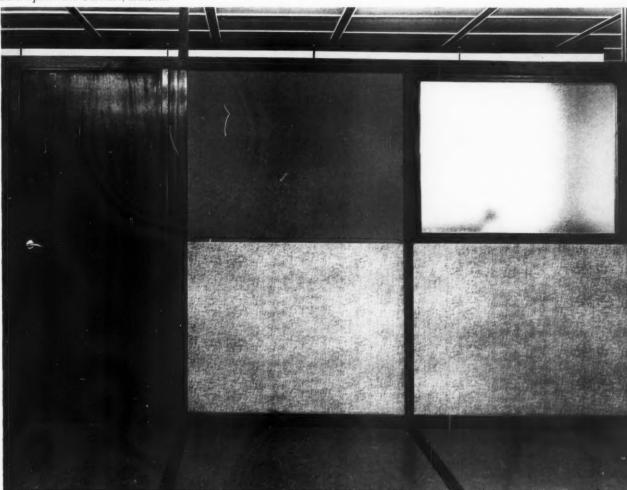


Architects' Journal 5.5.60

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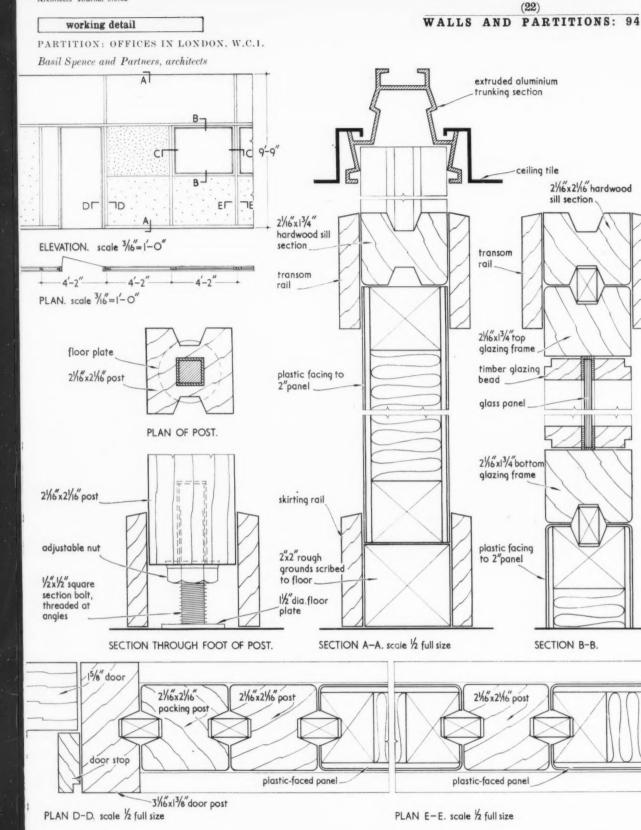
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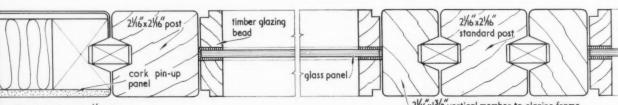
Basil Spence and Partners, architects



(22) WALLS AND PARTITIONS: 94

The main points to notice about this demountable partition are the visual effect produced by a 4 ft. 2 in. module, the care with which the module lines are expressed in floor and ceiling and the trunking section in the suspended ceiling which is designed to receive posts supporting the partitions at any point along the module line.





PLAN C-C. scale 1/2 full size

Architects' Journal 5.5.60

21/16x13/8 vertical member to glazing frame

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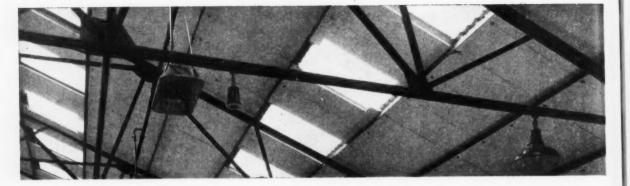


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PROJECT FOR OFFICES IN NIGERIA



These 26-storey office blocks, complete with surrounding podium could—to judge by this perspective—be projected in the centre of any city anywhere. Actually they are to be built in Kwame Nkrumah Avenue, Accra, by a Ghana development company "in association with British financial interests," and the architects are Guise, Davies and Upfold, who have opened offices in Accra.

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706] THE ARCHITECTS' JOURNAL for May 5, 1960

Announcements

PROFESSIONAL

John B. Weller, A.R.I.B.A., DIP.ARCH. (BIRM.), has commenced practice at 76, Station Road, Burgess Hill, Sussex, where he will be pleased to receive trade literature and price lists.

J. O. Plunkett O'Callaghan, B.ARCH., A.R.J.B.A., M.R.I.A.I., T.P.I., City Architect with Limerick Corporation, Ireland, has changed his private address to Bothar na Pairce, Corrbhaile, Limerick. In future he would prefer that the original form of his name, *i.e.*, S. O. Pluingchead O'Ceallachain, should be used instead of the translated version used professionally heretofore.

TRADE

The Senior Architect of Construction Consultants Kuwait, P.O. Box 59, Kuwait Arabia, would be pleased to receive trade catalogues.

Stanley Brackup has joined Mann Egerton & Co. Ltd., Woodworking Division, as senior representative.

Permoglaze Ltd. have opened a new depot in Belfast which will be under the supervision of M. P. Butler.

M. H. Beattie, E.R.D., M.I.E.E., is now Assistant Sales Manager (Power Cables) of British Insulated Callender's Cables Ltd.

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Correction

The Industry: Review of Electrical Engineers Exhibition.

We regret that there were a number of mistakes in the captioning of the illustrations to the above report in our issue of April 21. On the first page (page 627) the numbers were incorrectly given in the text, but as the captions on this page were correct, readers will have been able to spot the mistakes for themselves. On the second page, however, (628) owing to a printer's error the captions were themselves wrong, and, one of the illustrations, the Crabtree consumer unit, was printed upside down. We reprint below the four illustrations on this page correctly captioned. We apologize both to readers and to manufacturers for this.

Left to right: Fig. 5. GEC Island Socket; Fig. 6. GEC Hidutac switch fuse; Fig. 7. MEM Excel switch fuse; Fig. 8. Crabtree Consumer Unit.

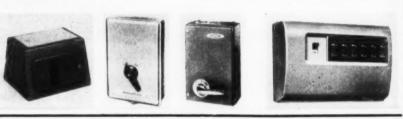


18.E2. REFERENCE BACK -

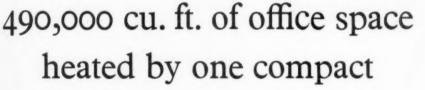
The editors regret that a serious error occurred in the table on the reverse of this Sheet (published 14.4.60) and it will, therefore be replaced by a revised version in the issue of 12.5.60.

33.S1. REFERENCE BACK

The following amendments should be noted: face of Sheet, drawing headed "Isometric view of Atlanta bath," width of side roll add " or $2\frac{1}{2}$ in.", width of roll at foot, amend $2\frac{1}{2}$ in. to $2\frac{1}{4}$ in. Drawing headed "Section through bath," amend height to 1 ft. 3 in. Table of dimensions, amend "width (d)" for 5 ft. 6 in. and 6 ft. 0 in. baths to 1 ft. 11 $\frac{1}{4}$ in. in each case. Reverse of Sheet, heading "Design and Construction," sub-heading "Handgrips," add Atlanta 61 Twingrip for 5 ft. 1 in. baths.







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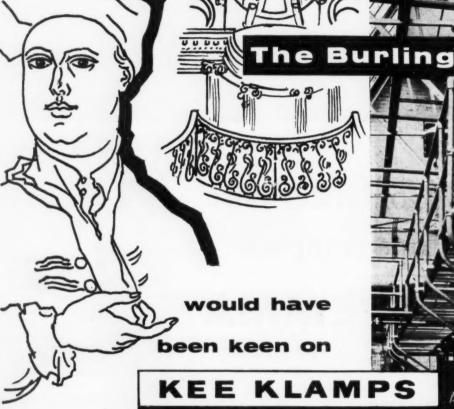
*If you are unable to visit us, write instead for the complete technical details and PROVED performance figures.





THE ARCHITECTS' JOURNA for May 5, 1960 ~

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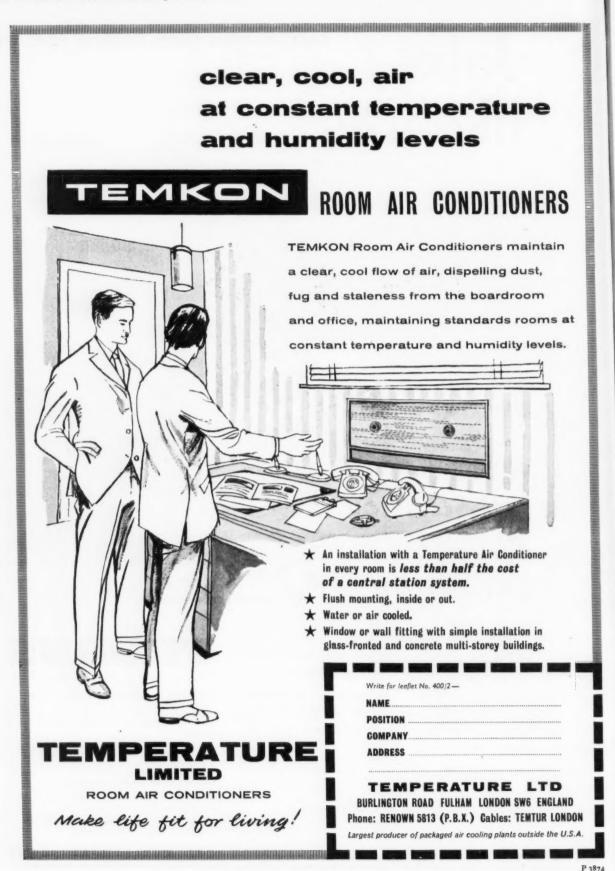


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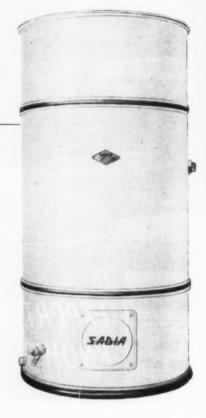
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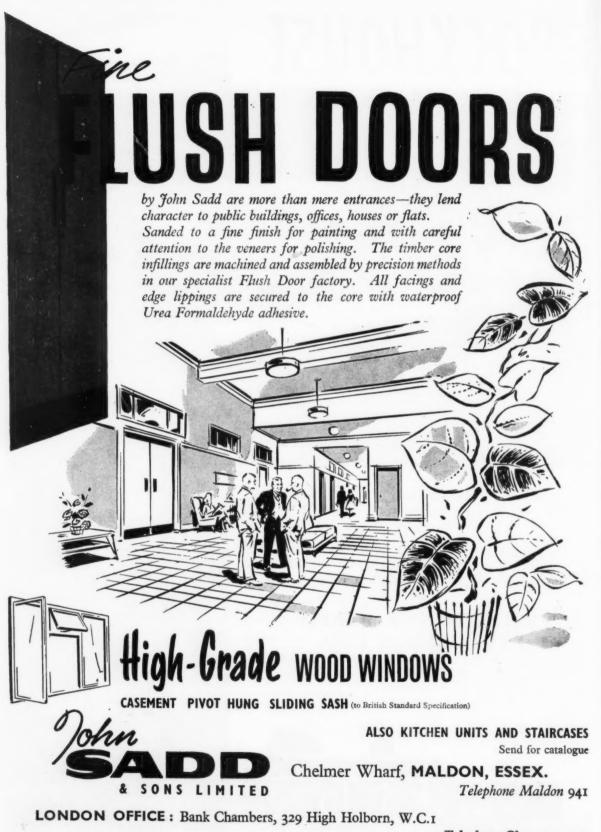
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THE ARCHITECTS' JOURNAL for May 5, 1960



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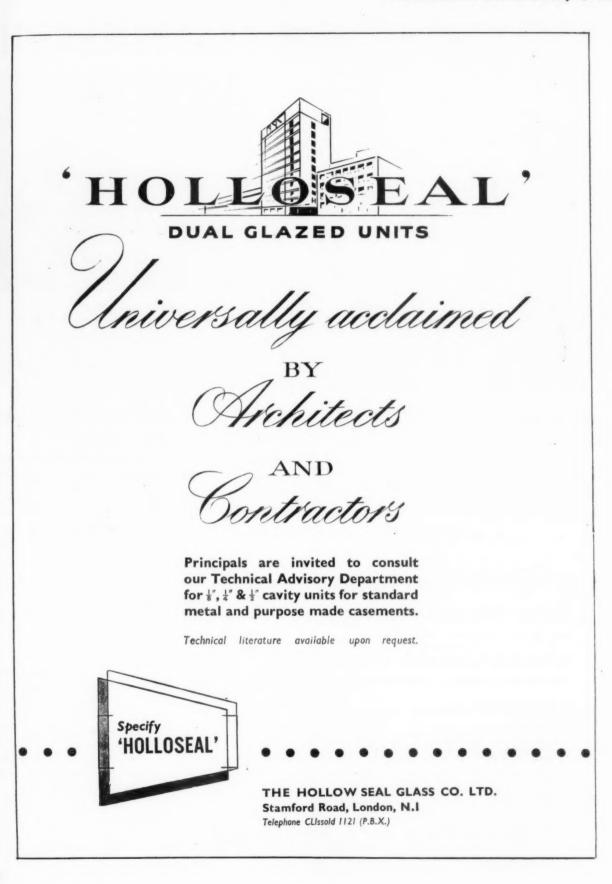
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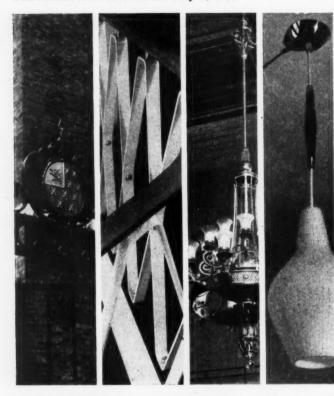


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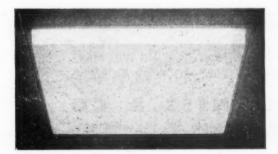
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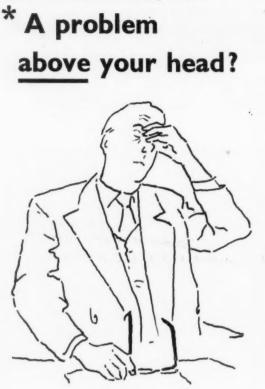
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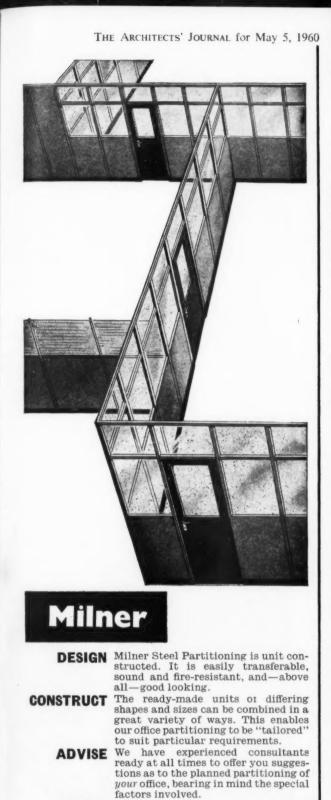
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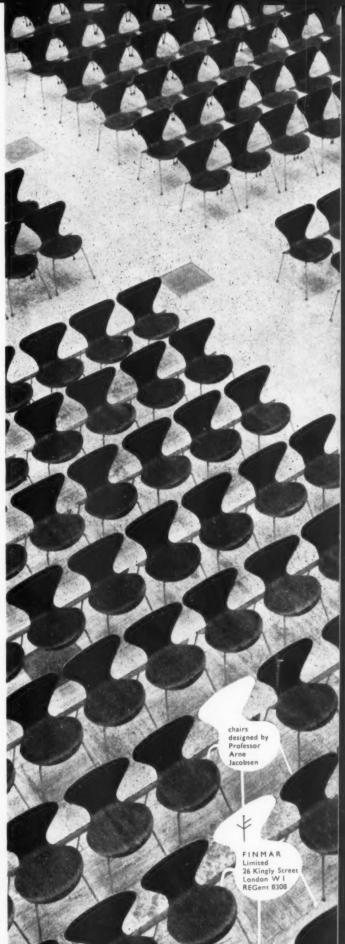


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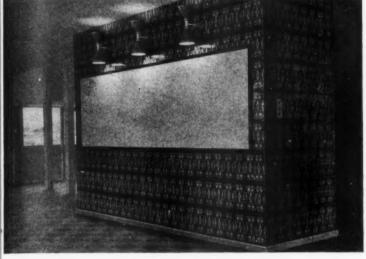
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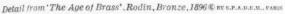




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THE ARCHITECTS' JOURNAL for May 5, 1960



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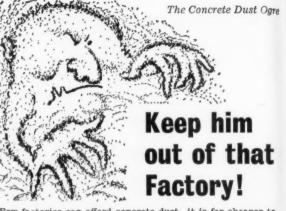
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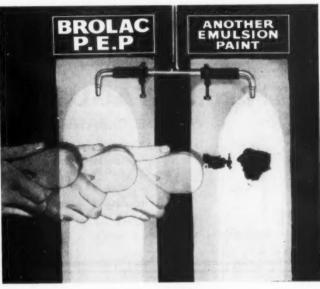
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THE ARCHITECTS' JOURNAL for May 5, 1960 'GO-ANYWHERE'

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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Adver-tisement Manager. "The Architects' Journal," 11 and 13, Queen Anne's Gate, Westimister, 5 W.1, and should reach there by first post Fri-day morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

are an extinction sourmai, at the address given above. AIR-MAIL SERVICE available on request. In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appoint-ments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the AJ., shall be despatched by air-mail on Wednesday of each week (one day prior to AJ, publication date). The cost of this special service to Overseas subscribers will be 5s, for four weeks (1s. 3d, for each additional week) and prepayment should be sent by subscribers wishing take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

Public and Official Announcements 36s. per inch; each additional line, 3s.

BOROUGH OF ENFIELD BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT

Applications are invited for the post of ARCHITECTUBAL ASSISTANT, Grade A.P.T. 1 (E610-2756 per annum, plus a London Weighting Allowance of £10-£30 per annum according to

Allowance of £10-£30 per annual according to the preparation of plans, specifications, etc., including the maintenance of public buildings. Saturday mornings are normally free of duty. Application forms obtainable from H. D. Peske, M.Sc.(Eng.), M.I.C.E., Borough Engineer & Surveyor, 7 Litle Park Gardens, Enfeld, Middx., returnable to the undersigned. CYRIL E. C. B. PLATTEN, Publice Offices. 3845

Publice Offices, Enfield, Middx.

BINBER, MIRUS. BUILDING SURVEYORS Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under London Building Acts and byelaws. District Surveyors' Offices are located in Metropolitan Boroughs and work involves nego-tiations with developers and supervision of works in progress.

hations with developers and supervision of works in progress. Up to £1,135 (under review) commencing accord-ing to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/AJ/494/5), County Hall, S.E.1. 9076

ADMINISTRATIVE COUNTY OF LEICESTER (a) SENIOR ASSISTANT ARCHITECT,

(a) SENIOR ASSISTANT ARCHITECT, £1.075-e1.220. Candidates for (a) must be chartered members of the R.I.B.A., have had considerable experi-ence and be capable of taking charge of contracts from inception to completion; for (b) must have passed Paris I and II of the R.I.B.A. Final and be capable of executing working drawings. Lodging allowance and removal expenses may be paid to a married man. Apply to County Architect, 123, London Road. Leicester.

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LONDON COUNTY COUNCIL ARCHITECT'S DEPARTMENT ARCHITECT'S DEPARTMENT ARCHITECT'S DEPARTMENT ARCHITECT'PLANNERS required. Tasks include three-dimensional planning in Compre-hensive Development Areas and all other impor-tant areas of new development throughout London, including those associated with road improvements. Up to £1.135 (nnder review) according to experience and qualifications. Application form and particulars from Hubert Rennett. F.R.L.B.A.. Architect to the Council (EK/AJ/527/5), County Hall, S.E.I. 907

CEK/AJ/527/5), County Hall, S.E.I. CORPORATION OF GLASGOW ARCHITECTURAL AND PLANNING DEPARTMENT ASSISTANT ARCHITECTS ASSISTANT QUANTITY SUBVEYORS Vacancics exist for a number of qualified assis-tants as above. Salary scale 1795-12.240 with placing according to experience. Applications should be addressed to the City Architect and Planning Officer. 20. Trongate, Glasgow. C.I. Those who have submitted applica-tions during the past 12 months should not reply to this advertisement. A. G. JURY.

ertisement. A. G. JURY. City Architect and Planning Officer. 9015

9015 LONDON COUNTY COUNCIL ARCHITECT'S DEPARTMENT ARCHITECT'S DEPARTMENT ARCHITECT'S DEPARTMENT required for improvements, alterations and ex-tensions. Jobs up to £20,000. Selected candidates will be responsible for surveys, schemes, work-ing drawings, specifications and supervising contracts. Up to £1,135 according to qualifica-tions and experience. (Salary scales at present under review with probable maximum of £1,250.) Form and particulars from Hubert Benett, F.R.I.B.A., Architect to Council (EK/AJ 90/5). County Hall, S.E.1. 9627

CITY OF ROCHESTER ARCHITECTURAL ASSISTANT (Grade A.P.T. II, 765-2680) Applications are invited for the appointment of Architectural Assistant in the City Surveyor's De-partment at a salary in accordance with Grade A.P.T. II (2155-2880).

Architectural Assistant in the City Surveyor's De-partment at a salary in accordance with Grade A.F.T. II (2156-2800). Candidates should have general experience, in-cluding the preparation of drawings and specifi-cations for Municipal Housing Schemes, and should have passed the Intermediate Examination of the Royal Institute of British Architects or hold a qualification of equivalent standard. The com-mencing salary will be according to qualifications

and experience. In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation and will be prepared to refund removal expenses after twelve months²

refund removal expenses after twelve months' service. The appointment will be subject to the National Scheme of Conditions of Service, the Local Govern-ment Superannuation Acts, and a satisfactory medical examination. One month's notice is re-quired on either side. Applications, stating age, training, qualifica-tions, present and previous appointments and ex-perience, together with the names and addresses of two persons to whom reference may be made, should be delivered to J. A. Peel, A.M.I.C.E., A.M.L.Mun.E., City Surveyor, 66, Maidstone Road, Rochester, not later than Wednesday, 18th May, 1960. PHILIP H. BARTLETT.

PHILIP H. BARTLETT, Town Clerk.

9750

Guildhall, Rochester. 14th April, 1960.

SURREY COUNTY COUNCIL Applications invited for appointment of ASSISTANT ARCHITECTS in the salary range of £785-£1,220 p.a. plus £30 p.a. London Allow-

ance. Commencing salary will be in accordance with qualifications and experience. Full details, present salary and three copies testimonials to County Architect, County Hall, Kingston, as soon as possible. 9839

 testimonialis to county Attanta
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 Ringston, as soon as possible.
 9839

 BOROUGH OF LEYTON
 (Municipal Borough in the County of Essex. Population approximately 100,000)

 BOROUGH ENGINER'S DEPARTMENT

 Applications invited for appointment of ARCHITECTURAL ASSISTANT at salary within the scale of £575 per annum rising to £725 per annum (plus London weighting) in accordance with the provisions of Grade APT.1 of the vational Scheme of Conditions of Service for Local Anthority Stafs.

 MOUSING ACCOMMODATION will be made available to successful applicant if required.

 -Cay week is operated.

 Apply letter to Borough Engineer. Town Hall, Leyton, E.10 (giving names of two referees), not later than FRIDAY. 13th MAY, 1960. B. J. OBEORNE, Town Hall

Town Hall. Teyton, E.10. 9773 RICKMANSWORTH URBAN DISTRICT COUNCIL APPOINTMENT OF ARCHITECTURAL ASSISTANT Applications are invited for the above perm-anet appointment in the Bngineer and Surveyor's Department. Salary on Grade A.P.T.H (2765-2880). Applicants must be experienced in the preparation of plans and specifications with houses. Applicants must be design of Council Houses. Applications will be considered Applications and addresses of two referees, abundary the May 1960. C. G. RANSOME WILLIAMS. Clerk of the Council. Council Offices.

Council Offices, Rickmansworth, Herts. 14th April, 1960.

Here 14th April, 1960. PAGE 2012 PAGE 201

9768

BIRMINGHAM REGIONAL HOSPITAL BOARD bild building programme. A large propor-n of the work will be designed and supervised the staff of the Regional Architect's Depart-nt. Applications are invited for the following terms The tion ment.

- (a) PRINCIPAL ASSISTANT ARCHITECTS
 Salary scale £1,665 to £2,035.
 Qualification : Registered Architect by
- examination. (b) ASSISTANT ARCHITECTS Salary scale 2905 to £1,310. Qualification : Registered Architect

(D) ANNINTANT ARCHITECTS Salary scale 2905 to 21,310. Qualification: Registered Architect by examination. Qualification: Infermediate Architect by examination.
 (c) ARCHITECTURAL ASSISTANTS Salary scale 2525 to 2900. Qualification: Infermediate R.I.B.A.
 (d) SENIOR ASSISTANT QUANTITY SURVEYOR Salary scale 21,300 to 21,600. Qualification: Corporate Membership B.I.C.S.
 (e) ASSISTANT QUANTITY SURVEYOR Salary scale 2905 to 21,300. Qualification: Corporate Membership R.I.C.S.
 (f) QUANTITY SURVEYING ASSISTANTS Salary scale 2905 to 21,300. Qualification: Inter B.I.C.S.
 (f) QUANTITY SURVEYING ASSISTANTS Salary scale 2605 to 2900. Qualification: Inter B.I.C.S.
 (f) QUANTITY SURVEYING ASSISTANTS Salary scale 4625 to 2900. Qualification: Inter B.I.C.S.
 (f) QUANTITY SURVEYING ASSISTANTS Salary scale 4625 to 2900. Qualification in the constraint scale scale and the scale and experience. They offer opportunities for gaining knowledge and experience of the whole field of hospital archi-tecture, ranging from adaptation schemes to com-prehensive new hospital projects, and including ward units, operating theatres, out-patients' kitchens, holler houses, staff housing accommoda-tion and numerous other types of building. It is anticipated that some candidates will be given the opportunity of attending a special poet graduate training course at the R.I.B.A. from the 11th to 16th July, 1950, followed by other studies later in the year. All posts supersonnable. Five-day week. Generous annual leave: Applications to Secretary, Birmingham Regional Hospital Roard. 10, Angustus Road, Birmingham 5, by 16th May, 1960, stating qualifications, are, experience, present position and salary and names of two referees. 9001

names of two referees. 9801 COUNTY OF BERWICK Applications are invited for the following posts in the COUNTY ARCHITECT'S DEPARTMENT. (a) ASSISTANT ARCHITECT £1.040 × 240 (4) to £1.200. Candidates must be fully qualified. (b) ARCHITECTURAL ASSISTANT £915 × 225 (3) to £990. Candidates must be qualified to Inter-mediate Standard. Placings may be made on Salary Scales accord-ing to experience. House is immediately avail-able for post (a). Applications stating age, experience and quali-fications and names and addresses of two Referees to be lodged with the undersigned not later than 12th May, 1960. ROBERT MARTIN.

ROBERT MARTIN, County Clerk.

County Buildings, DUNS.

9828

 DUNS.
 9828

 THE METROPOLITAN BOROUGH OF HAMPSTEAD
 HAMPSTEAD

 TWO PLANNING ASSISTANTS
 (1) Grade A.P.T. III/IV-2880 to £1,220 plus London weighting.

 (2) Special Grade-£785 to £1,070 plus London weighting.
 (2) Special Grade-£785 to £1,070 plus London weighting.

 (3) Special Grade-£785 to £1,070 plus London weighting.
 (2) Special Grade-£785 to £1,070 plus London weighting.

 (3) Applications are invited from suitably qualified nersons for the above permanent appointments in the Borough Engineer's Department.
 Candidates should have knowledge and ex-perience of the T. & C.P. Acts and Building Regulations and Byelaws. The appointments are subject to the general provisions of the "Charter." Medical examination is required.

 Housing cannot be provided Applications with full details and names of two referees should be forwarded to the Town Clerk (A.J.), Town Hall, Haverstock Hill, N.W.S. by Monday, 9th May, 1960.

 WEDNESFIELD URBAN DISTRICT COUNCUL

WEDNESFIELD URBAN DISTRICT COUNCIL ENGINEER AND SURVEYOR'S DEPART-MENT Applications are invited for the position of CHIEF ASSISTANT ARCHITECT at a salary in accordance with A.P.T. Grade IV (£1,065 to

21.220). Candidates must be qualified and have had considerable experience in the appointment for which they make application. The district is developing rapidly and offers

The district is developing rapidly and oness exceptional experience. The National Joint Council Conditions of Ser-vice will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examina-

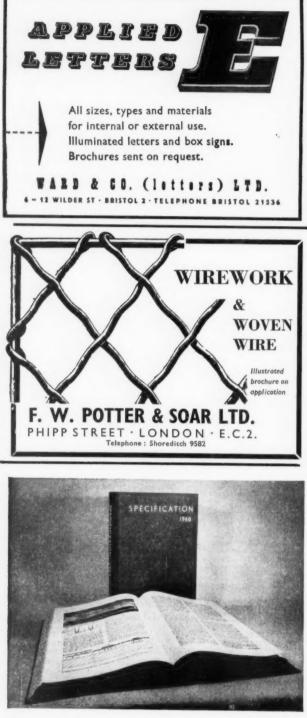
Housing accommodation will be provided, if necessary, and reasonable removal expenses will

hecessary, and reasonable removal capacities and Applications, stating age, qualifications, ex-perience, with the names of two referees, must be received by the undersigned by not later than 13th May, 1960.

J. HENWOOD JONES. Clerk of the Council.

Council Offices, Alfred Squire Road, Wednesfield, Staffs.

9916



SPECIFICATION 1960

edited by F.R.S. YORKE, F.R.I.B.A., assisted by PENELOPE WHITING, A.R.I.B.A.

> Comprehensively revised once again, with major additions and alterations, including one entirely new section,, Landscape Work, by J. St. Bodfan Gruffydd, F.I.L.A. covering procedure and specification clauses for landscape architects; the separation of Timber Engineering from Carpenter and Joiner; an extension on Supermarke Shops section; additional material on 'Site Investig Oliver Leach, in Excavator. 13 by $8\frac{3}{4}$ ins., over 150 (1454 last year), 35s. net, postage, 3s. 3d.

THE ARCHITECTURAL PRESS 9 Queen Anne's Gate, S.W.I



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Town Clerk. <u>BOROUGH OF SOLIHULL</u> APPOINTMENT OF ASSISTANT ARCHITECT Applications are invited for a post as an assistant Architect in the Borough Surveyor's pepartment at a salary in accordance with A.P.T. Grade IV (£1,065-£1,220 per annum), commencing according to experience and qualifications. Solihull has a population of approximately 9,000 and is still developing rapidly, there being a large programme of varied schemes in hand. Housing accommodation will be provided as soon as possible and half removal expenses paid. The appointment is subject to a satisfactory medical report, the provisions of the Local Government Superannuation Acts and the National Scheme of Conditions of Service, and to one month's notice on either side. And qualifications and present and past experi-ence, together with the names and addresses of sover ferees, should be submitted to the Borough subject and yay, 1960. W. MAURICE MELL Town Clerk. The Council House, Solihul.

The Council House, Solihull. 27th April, 1960.

9969

GLOUCESTER COUNTY COUNCIL APPOINTMENT OF ASSISTANT ARCHITECTS Applications are invited for the following

Applications are invited for the following appointment; — are invited for the following appointment; — are invited for the following appointment; — are invited for the following Grade IV (£1,266—£1,220) progressing to A.P.T. Grade V (£1,220—£1,375) subject to satisfactory report on reaching appropriate incremental point in Grade. The appointment offers considerable scope in design and planning. (b) A.P.T. Special Grade (£785—£1,070). The work of both appointments consists of the preparation of the Shire Hall buildings, in-cluding Central Police Station, Magistrates Ourt, Workshops, etc., together with further office accommodation. EDUCATION, MELARE, HEALTH, ETC., PROGRAMME (c) "Career Class" Grading details as for Out, W. Schurg, Grade (£765—£1,070).

(c) "Career Class" Grading details as for post (a). (d) A.P.T. Special Grade (*L*785-*L*1,070). Applicants for posts (a) and (c) must be Registered Architects and Associate Members of E.I.F.A. and for posts (b) and (d) have passed Final Examination R.I.B.A. N.J.C. Service Conditions, Superannuation, medical examination. Applications, stating age, present position, salary and date of appointment, previous appointment, previous appointment, so two persons for reference, to be submitted to County Architect, Shire Hall, Gioucester, by 14th May, 1960.

GUY H. DAVIS, Clerk of the County Council.

COUNTY BOROUGH OF BLACKPOOL Applications are invited for :--ASSISTANT ARCHITECTS, Special Scale, £785-

(a) DEPUTY REGIONAL ARCHITECT (£1,450 to £1,770).
 (b) SENIOR ASSISTANT ARCHITECT (£1,300 to £1,600)

(b) SENIOR ASSISTANT ARCHITECT (£1,300 to £1,600). (c) ASSISTANT ARCHITECT (£905 to £1,310). Applicants must be Registered Architects by examination, preferably having experience of the design and construction of modern public buildings. Applications. stating age. training, qualifications, past and present appointments, experience and the names and addresses of three referees, should be sent to the Secretary. Eastern Regional Hospital Board. Vernonholme, River-side Drive, Dundee, not later than 20th May. 1960.

THE ARCHITECTURAL ASSISTANT—Applications are invited from suitably qualified persons for the above post which is on the staff of the Board's Architect. The Department is engaged on an extensive programme of new industrial and commercial building, interior design, show-room and exhibition work, and offers the oppor-unity of working on unique projects in com-mercial and industrial design. The salary for the appointment, which is pensionable and sub-ect to medical examination, will be within the range of 6946–€1.071 per annum. Applications, stating age, qualifications and experience, to-gether with the names of two referees, should be addressed to the Industrial Relations Officer. West Midlands Gas Board, 6, Augustus Boad, Edgbaston, Birmingham, 15. 9944 CARSHALTON URBAN DISTRICT COUNCIL Population 62,000 TOWN PLANNING ASSISTANT, Engineer and Surveyor's Department. Must hold Final fusitute and preferably in addition either an unit be experienced in the applications. And tates must be experienced in the application con-ning Acts. Salary within the range of the Special and the transe of two refereed to assist. Must be experienced in the application and surveyor's Department. Must hold Final fusitute and preferably in addition either an unit be experienced in the application and surveyor's Department to the Special and the special polication forms obtainable from the under-sine Acts. Salary within the range of the specia-tion forms obtainable from the under-ience on that than 19 be prepared to assist. Application forms obtainable from the under-ience on the returned with the names of the cent of the Gover. District Conneil Offices. Canshalton Survey of the Special state forme. Deschalton Survey of the special state forme. Deschalton Survey of the special state of the Gover.

District Council Offices, The Grove. Carshalton, Surrey.

Carshalton, Surrey. 9945 THE UNIVERSITY OF LEEDS, Applications are invited for the post of ASSISTANT SUR-VEYOR OF THE FABRIC. Candidates should be good draughtsmen, possess a wide general knowledge of building construction and have had practical experience of supervision. Pre-ference will be given to Registered Architects or Surveyors. Salary on a scale to be determined by the age, qualifications and experience of the person appointed and rising to a maximum of not less than £1065. The University has a con-tributory pension scheme and a scheme for the payment of child allowances in appropriate cases. Application forms and further particulars are obtainable from the Bursar. The University. Leeds. 2, to whom the completed forms should be submitted not later than 16th May, 1960. Envelones must be endorsed "Assistant Sur-veyor."

Veyor." 9952 UNIVERSITY OF AUCKLAND NEW ZEALAND CONSTRUCTION Applications are invited for the above-men-tioned appointment. The salary will be at the rate of 62.800 per annum, and an allowance will be made towards travel and removal expenses. Further narticulars and information as to the method of application may be obtained from the Secretary. Association of Universities of the Brither narticulars and information Square, London, W.C.1. Applications close, in New Zealand and Lon-don, on 15th June, 1960. CITY OF WORCESTER

Applications close. In New Zemanu and 1995 CITY OF WORCESTER PROPOSED GIRLS' GRAMMAR SCHOOL AND PROPOSED TEACHERS' TRAINING COLLEGE APPOINTMENT OF CLERKS OF WORKS Applications are invited for these two tem-porary appointments from men who have had considerable experience in the building trade. Work on both projects has very recently com-menced and is expected in each case to take approximately two years to complete. The salary for the appointments is £1,000 per anum. The successful candidate will be required to applications, stating age, qualifications and experience, and giving the names of two referese, are to be addressed to the City Engineer as to reach him by 17th May. BERTRAM WEBSTER. Guildhall, 9062

Guildhall, Worcester.

BOROUGH OF MANSFIELD APPOINTMENT OF ARCHITECTURAL ASSISTANT (Special Grade £785-£1,070) Applications are invited for the above vacancy in the Borough Engineer and Surveyor's Depart-ment.

in the Borough Engineer and Surveyor's Department. Applicants should be qualified in accordance with paragraph (ix) (c) of the scheme of con-ditions of service; commencing salary will depend on experience. House on service tenancy may be rented if required. It is the Corporation's wish that the person appointed should live within the Borough. Applications, stating age, marital status, train-ing, past and present appointments with salary, and experience, together with the names of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, to arrive not later than Monday, the 16th May, 1960. A. C. SHEPHERD, Town Clerk.

Carr Bank, Mansfield,

THE ARCHITECTS' JOURNAL for May 5, 1960

METROPOLITAN POLICE RECEIVER'S OFFICE

RECEIVER'S OFFICE requires ASSISTANT MAINTENANCE SURVEYOR Salary: £330 per annum at age 25 rising by annual increments to a maximum of £1,300 per annum. (Starting pay according to age. Maxi-mum salary payable on entry-£1,125 per annum, being the age 34 point on the scale.) Qualifications required: Applicants must be registered Architects or have achieved Corporate membership of R.I.C.S. (Building Surveying Section). Section). Apply to: Chief Clerk (AJ), Architect and Surveyor's Dept., New Scotland Yard, S.W.1. 9958

METROPOLITAN POLICE RECEIVER'S OFFICE

METROPOLITAN POLICE RECEIVER'S OFFICE lequires SANITARY ENGINEERING DRAUGHTSMEN for interesting and varied work in connection with Police Housing and Non-housing Building Programmes. £570 p.a. at age 21 rising by annual increments to a maximum of £900 p.a. Starting pay according to age. Maximum age entry point—£785 p.a. (age 28). Applicants to have Ordinary National Certi-ficate as a minimum qualification. Previous ex-perience on similar work would be considered a advantage. Apply in writing to: Room 578 (AJ), Receiver's Office, New Scolland Yard, S.W.1. BOROUGH OF HORNSEY TWO ARCHITECTURAL ASSISTANTS re-quired. Salary Grade A.P.T. IV/V (21,065 to cl.375, plus London weighting). Commencing salary according to age and experience. The Council have a varied and interesting programme including a New Central Library. Public Mortuary and housing work in connec-tion with a Redevelopment Area and there are prospects of employment for a considerable period. Application forms from Borough Engineer &

Application forms from Borough Engineer & Surveyor, Town Hall, Crouch End Broadway, N.8, to be returned by noon on Friday, the 20th May, 1960.

W. B. MURGATROYD, Town Clerk.

9963

9965

Town Hall. Hornsey, N.8.

LIVERPOOL REGIONAL HOSPITAL BOARD

require ARCHITECTS (a) PRINCIPAL ASSISTANT ARCHITECTS. Salary Scale: £1.665-£2.05. (b) SENIOR ASSISTANT ARCHITECTS. Salary Scale: £1.300-£1.600 (c) ASSISTANT ARCHITECTS. Salary Scale:

(d) ARCHITECTURAL ASSISTANTS. Salary

é905-e1.310.
 é905-e1.310.
 (d) ARCHITECTURAL ASSISTANTS. Salary Scale: é625-e900.
 (e) ARCHITECTURAL DRAUGHTSMEN. Salary Scale: e475-e685.
 Imaginative and keen Architects are required on the staff of the Regional Architect, T. Noel Mitchell, B.Arch. F.R.I.B.A., to assist in carry-ing out the expanding Hospital Building Pro-gramme. Interesting new building is projected, including new General and Specialised Hospitals and the complete replanning of a large number of older Hospitals, covering a wide variety of building types.
 For appointments (a), (b) and (c) applicants should be qualified members of the R.I.B.A. and training in a recognised School of Architec-ture would be an advantage. Students com-pleting their training this year are encouraged to apply. For appointment (d) applicants should be of Intermediate R.I.B.A. standard and for (e) should have had three years' experience in architectural drawing.
 MI posts are superannuable and mileage allowances will be paid to approved car users. Applications should be returned to me within 10 days indicating post applied for and stating age, education, qualifications, experience, present and previous appointments and names and addresses of three referees (two technical). VINCENT COLLINGE. Scatel Street. Liverpool. 2.

55, Castle Street, Liverpool, 2.

Liverpool, 2. 9965 SOUTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD invites applications for the following super-annuable posts:-PRINCIPAL ASSISTANT ARCHITECTS-Salary £1,765-£2,135 or £1,665-£2,035. SENIOR ASSISTANT ARCHITECTS-Salary £1,30-£1,600 p.a. SENIOR ASSISTANT ARCHITECT/SUR-VEYORS-Salary £1,300-£1,600 p.a. ASSISTANT ARCHITECTS-Salary £900-£1,310 p.a.

£1,310 p.a. ARCHITECTURAL ASSISTANTS-Salary £625

-£900 p.a. London weighting allowance is paid in addition. Full details may be obtained from the Regional

Full details may be obtained from the Regional Architect. Applications, stating qualifications and experi-ence, with names of three referees, should reach the Secretary, 40, Eastbourne Terrace, W.2, by 13th May. 9964

COUNTY BOROUGH OF BLACKPOOL Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, A.P.T. II (2765-2880 per annum). Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A., Borough Surveyor, P.O. Box 17, Municipal Offices, Black-mool 9866

CITY OF COVENTRY will consider applications for qualified posts

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				NITIES	
				PLANNING	
1.	SCALE	C	£1,3	85-£1,620	
2.	SCALE	B	£1,30	05-£1,485 30-£1,420	
3.	SCALE	A	£1,2	30-£1,420	
	A.P.T.		£1,2	20-£1,375	
	A.P.T.			65-£1,220	

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 Cor the following types of work:- Cor the following types of work:- Development Plan & Research.
 Development Plan & Research.
 Development Control & Outer Areas.
 Application forms from Citk Architect & Planning Officer, Council House, Coventry, returnable VA days publications. Are Intertect Rat. Arehited for the following aphotonent: Architectural Assistant, Special Classes. A.P.T. 1 (2010-2765) or Special Grade experience COM.
 MENCING SALARY MAY BE UP TO 2700 ON A.P.T 10 R 4990 ON SPECIAL GRADE.
 Previous experience in the design of houses and public buildings is desirable. Candidates, requiring Special Grade must hold a recognised Diploma in Architecture on either side.
 MOUNG ACCOMMODATION CAN BE PRO-TIDED IF NECESSARY AND 50 PER CENT OF REMOVAL TRANSPORT EXPENSES WILL BE PAID IN APPROVED CASES.
 Applications, stating aze, present and previous appointments. qualifications, experience, etc., to gether

Town Hall, Barnsley. April, 1960.

April, 1960. 9/14 BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL JUNIOB ARCHITECTURAL ASSISTANT Applications are invited for the above appoint-ment in Grade II (£766-£880), the commencing salary to be according to experience. Applica-tions, accompanied by two testimonials, should be forwarded to the Housing Architect, Town Hall, Beeston, Nottingham, not later than 17th May, 1960.

H. D. JEFFRIES, Clerk of the Council.

9714

9972 SOUTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD REGIONAL ARCHITECT'S DEPARTMENT APPOINTMENT OF ASSISTANT REGIONAL In view of the expansion of the hospital build-ing programme applications are invited for the vacancy of Assistant Regional Architect in the Board's Regional Architects Department at a salary scale to be agreed by the Ministry of Health.

salary scale to be agreed by the Ministry or Health. Applicants must be Registered Architects having passed the requisite examinations and must have had experience in the management of design teams engaged on major projects, but previous experience in hospital building is not necessarily required. The person appointed will be responsible for the direction of design teams engaged on major schemes of new hospital building, on research work regarding the efficiency of completed units, and on the practical application of the results. It is hoped that the successful applicant will be able to attend the R.I.R.A. Course to be held early in July and the Study Course which the Nuffield Foundation propose to hold in mid-August.

Nuffield Foundation propose to note in man-August. A vacancy also exists for a SENIOR ASSIS-TANT ARCHITECT, salary on and after 1st July, 1960, £1,300 × £60 (5) – £1,600 plus £50 p.a. London weighting allowance. Applications, including age, present and pre-vious appointments, and the names of three referees should be addressed to the undersigned at the Board's Headquarters at 40, Eastbourne Terrace, London, W.2. and should be received by not later than 16th May. E. G. BRAITHWAITE, Secretary. 9971

GLENROTHES DEVELOPMENT CORPORATION Architect, with A.R.I.B.A., required for the design and construction of commercial and shop-ping premises, industrial buildings and housing. Salary grade rising to 41.375 per annum, with placing according to age and experience. House to rent available if required. Medical examination under Superannuation Scheme. Appli-cation forms from Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife, to be returned by 14th May. 1960. 9779

60 BOROUGH OF BEXLEY ASSISTANT ARCHITECT Candidates should have had experience in School and housing projects. To dapplication and conditions of appoint-ment are obtainable from the Borough Engineer. West Lodge, Broadway, Becklyheath, Kent, to whom completed applications must be returned by the 16th May, 1960. The Council may be pre-pared to assist in the provision of housing accommodation. Tarther BOLDFINCH. Architecter. Base

ARTHÜR GOLDFINCH, Town Clerk. 9852 MIRALTY-NAVY WORKS DEPARTMENT ARCHITECTURAL AND CIVIL ENGINEERING ASSISTANTS TARCHITECTURAL AND CIVIL ENGINEERING ASSISTANTS Traving Offices for Architectural and Civil Engineering Assistats as shown. Posts are non-pensionable. Opportunities for transfer to Established Staf will occur. MIRALTY AND CIVIL BUDGENTING ASSISTANTS. Travencies exist at Pinner (Middlesex). Ports-moth. Bevonport, Liverpool, Chatham, Rosyth. Greenock, Macrihanish and Glen Douglas, and occur at establishmenis elsewhere in the United Kingdom from time to time. Applicants must be competent Draughtsmen and experienced designers in one or more of the following types of civil engineering works:--structural steelwork; reinforced concrete; dock and harbour works; arifield construction; oil uel schemes; roads, rail services and water sup-plies. O.N.C. or equivalent qualification. For the posts at Macrihanish and Glen Douglas verying and setting out experience. MECHITECTURAL ASSISTANTS. Travencies exist at Pinner (Middlesex) and progenees will be given to candidates with sur-verying and setting out experience. MECHITECTURAL ASSISTANTS. Travensional Architects on the preparation of designs for a wide range of new works, including torus of accommodation; specialised technical torus o

Interview will be arranged locally.

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and should have had considerable protected a perience. The grade and commencing salary for (b) will be within the range stated according to experi-ence and qualifications. Large constructional and development pro-gramme offers a variety of work and experience. Consideration will be given to the provision of housing accommodation and payment of removal expenses in approved cases. Application forms from Borough Architect, Town Hall, Luton, returnable by 14th May, 1960. 9870

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE OFFICE OF THE COUNTY ARCHITECT The Council require SENIOR ARCHITECTS in salary grades 4.P.T IV (21,055-42,20) and Special Grade (2785-21,070) for their extensive and interesting building programme which in-cludes schools, colleges, old people's and child-ren's homes, clinics, ambulance, fire and police stations, and other public buildings. Architects appointed will be employed at the Central Office in Wakefield solely upon capital works dealing with building projects from sketch plans to com-pletion.

with building projects from sketch plans to com-pletion. Applications are also invited for the under-mentioned posts at the Central Office.— JUNIOR ARCHTPECTURAL ASSISTANTS Grade A.P.T. II (£765—£880). Grade A.P.T. I (£760—£765). Applications to be submitted as soon as possible on forms to be obtained from and returned to the undersigned. A W GLOVER FRIBA

A. W. GLOVER, F.R.I.B.A., County Architect.

6607

Bishongarth. Westfield Road, Wakefield.

HOSPITAL BUILDING PROGRAMME

Sheffield Regional Hospital Board

ARCHITECTS ENGINEERS QUANTITY SURVEYORS

QUANTITY SURVEYORS The Board require additional professional and technical staff to deal with a substantial expa-sion of the hospital building programme. This offers exceptional opportunities to those in-terested in contemporary design in a variety of buildings ranging from staff housing to the design of complete new hospitals. Promotion prospects are bright and to those with creative ability and enthusiasm a worthwhile career in a highly rewarding field is assured. The Board's Headquarters are three miles from the City centre on the edge of the Derps-shire moors. Working conditions in modem drawing offices are excellent. Canteen and social actilities are available. Posts are superannuable and mileage allowances will be paid to approved car users.

ar users. Vacancies exist for:-ASSISTANT REGIONAL ARCHITECT-Salary Scale: Salary to be determined. PRINCIPAL ASSISTANT ARCHITECT-Salary Scale: e1.665/22.055 per annum. SENIOR ASSISTANT ARCHITECTS-Salary Scale: e1.300/41.600 per annum. VEYORS-Salary Scale: £1.300/£1.600 per annum.

ASSISTANT ARCHITECTS-Salary Scale: £905/£1,310 per annum ASSISTANT QUANTITY SURVEYOR-Salary Scale: £905/£1,310 per annum.

Architects should be members of the R.I.B.A. and Quantity Surveyors members of the B.I.C.S. Commencing salaries for new entrants at mini-mum of the scale.

Applicants are invited for the following appointments:— (i) ASSISTANT QUANTITY SURVEYOR. Applicants must be chartered quantity surveyors, preferably with experience in municipal housing including multi-storey flats and shopping centres. (ii) ASSISTANT ARCHITECT. Applicants must have passed Parts I and II of the R.I.B.A. Final examination and have had experience in bousing design and construction and estate lay-out, preferably with a municipal authority. Salaries for the above appointments within the grading for Special Classes of Officers (2785-cl.070) according to experience and qualifications (a commencing salary of 2950 is envisaged). (iii) ARCHITECTURAL ASSISTANT, A.P.T. Grade II (2765-2680). Applicants are required to have passed the Intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture, and preferably musing. The appointments are subject to N.I.C. con-

examination or its equivalent at one of the recognised schools of architecture, and preferably have had experience in local government housing. The appointments are subject to N.J.C. con-ditions of service. Housing accommodation available in approved cases and approved removal expenses reimburs-able up to a maximum of 250. Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre. Southampton, returnable by Monday. Ioth May, 1960. COUNTY BOROUCH OF DEWSRURY BOROUGH ARCHITECT AND RUILDINGS SURVEYOR'S DEPARTMENT Applications are invited for the following appointement: are invited for the following science. APT, Grade IV. (a) ASSISTANT ARCHITECT (Education Sec-tion)—A.P.T. Grade IV. The commerciag salaries will be fixed within

(b) FOWN PLANALAG ASSISTANT-A.P.1. Grade IV. The commencing salaries will be fixed within the scone of the grades stated according to U-e1.065-e1.220 n.a. Applicants for (a) should be A.R.I.B.A. and for (b) A.M.T.P.I. Housing accommodation may be made avail-able if required. The appointments will be subject to one month's notice on either side and to the pro-visions of the Local Government Superannuation Acts.

month's manual visions of the Local Government Acts. Aublications, stating age, education, qualifica-tions, full particulars of training and experi-ence, together with copies of two recent testi-monials, should be sent to the undersigned not later than Tuesday. 17th May, 1960, in envelopes endorsed "Appointment of ...". NORMAN JAMES. A. NORMAN JAMES.

Town Hall, Dewsbury. 25th April, 1960.

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WOR Applica SENIOR £1,220 pe Forms should be should County t late

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WORCESTERSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT Applications are invited for the post of BENIOR ARCHITECT, Grade A.P.T. IV (£1,065-

Applications are minited for the post of ENIOR ARCHITECT, Grade A.P.T. IV (£1,065-£1,220 per annum). Forms of application and further particulars hould be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 20th May, 1960. (Y.266.) 9961 COUNTY BOROUGH OF BIRKENHEAD BOROUGH ARCHITECTS, DEPARTMENT ASSISTANT ARCHITECTS, ASSISTANT QUANTITY SURVEYOR-Salary within the Special Classes Scale (£785-£1,070). Candidates must be suitably qualified and experienced. The posts offer interesting and responsible work in connection with the Council's extensive pro-gramme of Schools and other major projects. Form of application and further particulars from Borough Architect's Department, 3, Conway Street, Birkenhead, Closing date for applica-tions: 17th May, 1960. Relationship to members or senior officers of the Council must be disclosed.

91 SEMAN SURVEY OF THE COMMENT MUST BE DISCOMENDANCE 915 CITY OF ELY URBAN DISTRICT COUNCIL The Council invite applications for the appoint-ment of ASSISTANT ARCHITECT/SURVEYOR within one of the following grades:-----Grade A.P.T. II (£510-£755), Grade A.P.T. II (£765-£880), Special Grade (£785-£1,070), Applicants should have passed at least the Intermediate Examination of the R.I.B.A, or R.I.C.S. and have had experience of housing work.

Salary according to qualifications and experi-Housing accommodation may be made avail-

"Housing accommodation may be able (if required), refurther details and form of application (refurnable to the undersigned not later than Wednesday, 18th May, 1960) apply to the Council's Engineer & Surveyor, Mr. John G. Shilston,

J. E. WATKINS, Clerk of the Council. Urban Council Offices, Lynn Road, Ely, Cambs.

Municipal Offices.

BOROUGH OF BACUP APPOINTMENT OF ARCHITECTURAL ASSISTANT Applications are invited for the above appoint-ment in the Borough Engineer's Department. Salary will depend upon age and experience in accordance with the National Scale to a maxi-mum of £1,070 per annum for a qualified Assis-tant.

fant. Housing accommodation will be available, if Conditions of appointment and application form obtainable from me. Closing date 21st May, 1960.

A. D. BOND. Town Clerk.

9902

Municipal Offices, Bacup. ESSEX COUNTY COUNCIL LAND AGENT AND VALUER'S DEPARTMENT TEMPORARY ARCHITECTURAL ASSISTANT Applications are invited for the above appoint-ment. Salary within A.P.T. Grade II (£765-£880).

280). Salary within A.F.F. Utaue 14 (100-280). Candidates must have had previous architec-tural experience (preferably with a Local Authority) on housing work. They should be capable of making surveys of existing properties, peparing working drawings and specifications, and supervising works of reconditioning and improvements to dwellinghouses. Application forms from The County Land Agent and Valuer, 69, Duke Street, Chelmsford, to whom they should be returned not later than first post on Monday, the 16th May, 1960. 9891 FLEE COUNTY COUNCIL

mom tney snould be returned not later than first post on Monday, the 16th May, 1960. 9891
 FIFE COUNTY COUNCIL PLANNING DEPARTMENT
 Applications are invited for the undernoted appointments:—

 (a) PLANNING ASSISTANT—Previous experi-ence in a County Planning Office and of Development Plan Work and the holding of appropriate planning qualifications desirable.
 (b) RESEARCH ASSISTANT—Honours Degree in geography desirable and experience of Town and County Planning Work. Successful candi-date will be expected to take charge of a small section of the County Planning Office dealing with research problems.
 Salary for both posts Executive 3, *i.e.* £735 to 2795 per annum.
 Forms of application in respect of both appointments obtainable from the County Plan-ning Officer, County Buildings, Cupar, Fife, should be returned by 21st May, 1960, to the County Clerk, County Buildings, Cupar, Fife, Should De returned by 21st May, 1960, to the County Clerk, County Buildings, Cupar, Fife, Should De returned by 21st May, 1960, to the County Clerk, RURAL DISTRICT COUNCIL

No canvassing. 9933 LLANELLY RURAL DISTRICT COUNCIL Applications are invited from suitably qualified persons for the post of ARCHITECTURAL ASUSTANT within A.P.T. Grade I (£610-£765). The applicants should have been trained in a suitable office, and have experience in design of houses, surveying and levelling, and preparation of layouts for housing schemes. N.J.C. Service Conditions. Post pensionable. Medical examination. Application, in plain envelope endorsed "Archi-tectural Assistant." to be made to the Clerk of the reach him not later than Thursday, the 26th May. 1960. 935

NEWCASTLE REGIONAL HOSPITAL BOARD P. H. KNIGHTON, M.B.E., A.R.A.B.A. EXPANSION OF REGIONAL ARCHITECT'S DEPARTMENT Arising from the number of major projects (totalling about £12m.) to be carried out in the Newcastle Region as part of the Hospital Ex-pansion Programme, the Board intends to add considerably to its Architectural Department in Newcastle

considerably to its Architectural Department in Newcastle. The salary scales offered represent a consider-able improvement on those hitherto applicable and are the result of a new National agreement recently reached. The work is of a high-class and varied nature and offers ample opportunity for gaining ex-perience in both highly-specialised hospital structures and many types of ancillary general and omestic buildings. The work will involve all stages from sketch plans to supervision of construction and a car mileage allowance will possession of previous hospital experience is

structures and many types of ancillary general and domestic buildings. The work will involve all stages from sketch plans to supervision of construction and a car mileage allowance will be paid. Possession of previous hospital experience is on a national basis for a course of instruction in this field and for seeing recently-completed hospital buildings. Applications are invited for the following superannuable posts and candidates for posts 1, 2, and 3 must be Registered Architects. 1. PRINCIPAL ASSISTANT ARCHITECTS (£1,300 × £60 (5)-£1,600). To act as Team Leaders. 2. SENTOR ASSISTANT ARCHITECTS (£1,300 × £60 (5)-£1,600). To act as Team Leaders. 3. ASSIRTANT ARCHITECTS (£1,200 × £60 (5)-£1,600). To act as Team Leaders. 3. ASSIRTANT ARCHITECTS (£205 × £35 (1) × £45 (6) × £53 (2)-£1,300. Will be individually responsible for parts of major projects or for certain smaller schemes. 5. ARTICLED PUPILS (£230 (at age 15) × £20 (1) × £25 (2) × £35 (1)-£400). In termediate R.I.B.A. and some practical experience. 5. ARTICLED PUPILS (£230 (at age 15) × £20 (1) × £25 (8) × £30 (1)-£400). In view of the opportunity which exists for general experi-ence and for study at King's College, Newcasite. the Board is prepared to accept Pupils into its Architectural Departement. Candidates must have at least the General Certificate of Education in five subjects at Ordinary level. Applications are also invited for:-6. CHIEF QUANTITY SUEVEYOR (£1,765 × £50 (1) × £75 (2) × £85 (2)-£1,250. Applicates must hold corporate membership of the Board at present has no quantity surveyors. The Board the successful candidates will be required to act as staft Quantity Surveyor in association with a number of private firms of quantity surveyors commissioned by the Board for specific projects. 7. CLERK OF WORKS (Salary within the scale £200 × £40 (5) × £50 (1)-£1,050. Each of the successful candidates will be required to supervise the construction of a major hos-revended, eskington and Carlisle, and to have and present appointments, present salary

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HARLOW DEVELOPMENT CORPORATION Applications are invited for the following posts in the Architect's Department: (a) ARCHITECT, A.P.T. VI (£1,163-€1,350). (b) ARCHITECT, A.P.T. VI (£1,20-€1,375). (c) ASSISTANT ARCHITECT, A.P.T. IV (£1,065-£1,20). (d) ASSISTANT ARCHITECT, A.P.T. IV (£1,65-£1,20). (e) ASSISTANT ARCHITECT, A.P.T. II (£630-£1,005). (e) ASSISTANT ARCHITECT, A.P.T. II (£756-£880). Appointments will be made at a salary within the scale according to qualifications and experi-ence. Applicants for posts (a), (b), (c) and (d) must be Associate Members of the R.I.B.A. and for post (e) must have passed the Intermediate Examination of the Institute, and successful applicants in appropriate cases will on qualify-ing be placed in suitable cases. Applications, statiang age, qualifications, ex-perience, etc., and post applied for, together with the names of two persons to whom reference may be made, to be addressed within 4 days to: The General Manager, "Terlings," HAUYON-WITH-ROBY URBAN DISTRICT

reference may be made, to be addressed within 14 days to: The General Manager, "Terlinge," Marlow, Essex. 913 **HUYTON-WITH-ROBY URBAN DISTRICT** COUNCIL **ARCHITECTURAL AND HOUSING DEPART**. MENT Applications are invited for posts in the above bepartment as follows:-(a) SENIOR ASSISTANT ARCHITECT, Grade A.P. IV (20,65-c120). (b) ARCHITECTURAL ASSISTANT, Grade A.P. II (655-c120). Candidates for post (a) should be associate members of the R.I.B.A., and candidates for post (b) should have passed the Intermediate Examination of the R.I.B.A. The work of the Department consists of a large Housing and Capital Works programme. The appointments will be subject to the Local Government Superannuation Acts and the National Conditions of Service, and will be ter-minable by one calendar month's notice in writing on either side. Applications, stating, age, qualifications and experience, together with the names of two persons to whom reference can be made, should Housing Director, Archway Road, Huyton, not later than Monday, 25rd May, 1960. Canvassing disqualifies. Derby Road, 2010

Council Offices, Derby Road, Huyton.

BOROUGH OF GUILDFORD Applications are invited for the following

 (a) ARCHITECTURAL ASSISTANT, A.P.T. III (4880-£1,065 p.a.).
 (b) ARCHITECTURAL ASSISTANT, A.P.T. (c) ARCHITECTURAL ASSISTANT, A.P.T. II (2765-2830 p.a.).
 Applicants for (a) should have passed the ntermediate Examination of the Royal Institute of British Architects and have had practical xperience in general architectural work and ousing. experience housing

of British Architectural work and housing. Applicants for (b) must be capable of preparing working drawings and details. Preference will be given to candidates who have reached the Intermediate Examination standard of the Royal Institute of British Architects. The commencing salary will be fixed in accordance with experience and qualifications. Consideration will be given to the provision of housing accommodation if required for both. (a) and (b). Applications, with names and addresses of two referees, must be sent to the Borough Engineer and Surveyor, Municipal Offices, High Street, Guildford, Surrey, by Friday, 20th May, 1960. H. C. WELLER, H. C. WELLER, 70wn Clerk.

W.2. Within 14 days. JUNIOR DRAUGHTSMAN AND TRACER is required in the Architect's Department of the Milk Marketing Board. Applicants must be 17 years of age or over and should be prepared to study and preference will be given to those reading for R.I.B.A., Intermediate qualifications, Salary £400 to £450 according to age and experi-ence. Applications, giving brief details of qualifications and experience, should be sent to the Personel Officer. Milk Marketing Board, Thames Ditton, Surrey. Ref. 277. 9940

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Architectural Appointments Vacant 38. Number. per line: minimum 12s. Box N including forwarding replies 2s. extra.

Two ARCHITECTURAL ASSISTANTS re-quired-Intermediate R.I.B.A. standard-who have had good office experience. Salary 2600-21,000 according to experience. Housing accommodation could be provided. Reply, giving particulars of age and experience and salary required, to: Francis W. Keyworth, L.R.I.B.A., 20, Park Road, Melton Mowbray, and 31, Friar Lane, Leicester. 876

A BCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good salary and prospects for suitable applicants. Five-day week. Write giving particulars of age. gualifications, experience, etc., to Box 910, c/o 7 Coptic Street, W.C.I. 8815

A series, and the series of th

A SSISTANTS required capable of taking re-sponsibility for the preparation of working drawings and supervision of contracts. Interesting projects with opportunity to gain worthwhile experience. Telephone Mayfari 3111 for appoint-ment or write giving details of experience to Rox 8930. ment or Box 8930.

A SSISTANT ARCHITECT required by Hasker & Hall, L/F.R.I.B.A., for responsible posi-tion in their London office, 13, Welbeck Street, W.I. (WEL, 0061.) 9061

W. H. WATKINS. GRAY & PARTNERS require ASSISTANTS of Intermediate and Final standard, Pension scheme and luncheon ovuchers. Salary range 2700 to 2900. Apply 57, Catherine Place, London, S.W.1. 8700

R ONALD WARD & PARTNERS have imme-diate vacancy for ASSISTANT ARCHI-TECTS with initiative and some experience, for interesting, commercial, industrial and civic projects. Salaries commensurate with ability. Apply, 29, Chesham Place, S.W.1. BELgravia 3561.

ELIE MAYORCAS requires SENIOE ASSIS-office experience in this country. Write, giving particulars of architectural education and ex-perience, and salary required, to: 13, David Mews, Baker Street, W.1.

LARGE SCALE Development in London and Industrial Buildings in Home Counties. High office blocks and residential flats. Four ASSISTANT ARCHITECTS required. Senior and Intermediate standard. West End Office. Five-day week. Good salaries and bonuses. Box 8086.

LEWIS SOLOMON, KAYE & PARTNERS, rapidly expanding practice require ARCHI-TECTS and ASSISTANTS with initiative and competence to work on major design projects in the London area. These projects include Compre-hensive Development Schemes, Hoteis, Schools, Offices, and Luxury Flats, Good salaries accord-ing to ability and experience, luncheon vonchers, five-day week, and exceilent working conditions. Write 5. Holborn Circus, Thavies Inn House, E.C.1, or telephone CITY SSII, quoting SLB in both instances.

DEVEREUX & DAVIES require capable and enthusiastic ASSISTANT ARCHITECTS salary £1,000 per annum or according to experi-ence and ability. 3, Gower St., Bedford Sq., London, W.C.1. 8629

A RCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners. 20, Bedford Square, London, W.C.1. 7282

A BCHITECTURAL ASSISTANTS, senior and junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Box 9143.

TWO ASSISTANTS required: one at Inter-mediate standard and one qualified with some years office experience, for small busy office. Salary according to experience. Ring LANgham 1732 or write to F. G. Frizzell, A.R.I.B.A. 80, Portland Place, W.1. 9022

More and the second sec

SEELY & PAGET have immediate vacancy in their City office. Standard near Final B.I.B.A. with office experience. Holiday arrangements respected. Salary range £842 × £82 (4)-£1.050 plus luncheon vouchers. Write 41, Cloth Fair. E.C.1, or telephone MET 8511. 9155

FOUR-DAY WEEK. Opportunity for Juniors and/or post Intermediate Students to keep abreast with their school work and undertake interesting and varied office work including Schools, Hospitals, and Public Houses. Good salary according to qualifications and experience. Five-day working and overtime when desired. Iuncheon vouchers. Appointment by telephone ROYAL 6216. Stewart Hendry & Smith. F.R.I.B.A. A.M.T.P.I., 90, Fenchurch Street, London, E.C.3. 9095

TREHEARNE & NORMAN, PRESTON & PARTNERS have vacancies for ARCHI-TECTS and ASSISTANTS with imagination and designing ability to assist with important new developments in the London area. Apply in confidence to 83, Kingsway, London, W.C.2. (HOL. 4071.) 6429

A BCHITECTURAL ASSISTANTS of Final or Intermediate standard required by London Architects with varied practice. Arrangement. Five-day week. Ring WHI 2552 for interview.

NORMAN & DAWBARN require experienced architects for interesting projects both here and overseas. Applicants should be interested in good design. Salaries from 2900 upwards. 'Phone or write for an appo'- "nent to: 7 Portland Place. W.1

A BCHITECTURAL ASSISTANTS required by Hasker & Hall, L. (F.R.I.B.A., in their offices in London and Warwickshire. Good salary, with scope for initiative and responsibility. Write to 13, Welbeck Street, W.1. or telephone WEL @661 or Knowle (Birmingham) 3502. 9062

BUSY City Firm engaged in industrial and commercial work requires ASSISTANT of Final standard with several years' office experi-ence. Five-day week. Luncheon vouchers. Salary by arrangement. Box 9227.

£1,000^{/22,000} p.a. will be paid to experienced competent ARCHI-TECTS by a private practice in the City of London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box 9360.

EXPANDING practice with varied work in and capable Intermediate standard ASSISTANTS. Good salary and prospects for the right men. Holiday commitments honoured. Dalling and Partners, 14, Bloomsbury Square, W.C.1. CHAn-cery 4725. 9469

TRIPE & WAKEHAM. Chartered Architects. require a SENIOR ASSISTANT to supervise construction of interesting and important project abroad. Salary by arrangement. Telephone WEILbeck 7744 or write to 16, Fritzhardinge Street. London. W.1. for an appointment. 9444

TRIPE & WAKEHAM, Chartered Architects, require ASSISTANTS in all grades to work in their London office on interesting projects both in this country and abroad. Salary by arrangement. Telephone WELbeck 7744 or write to 16, Fitzhardinge Street, London, W.1. for an appointment. 9443

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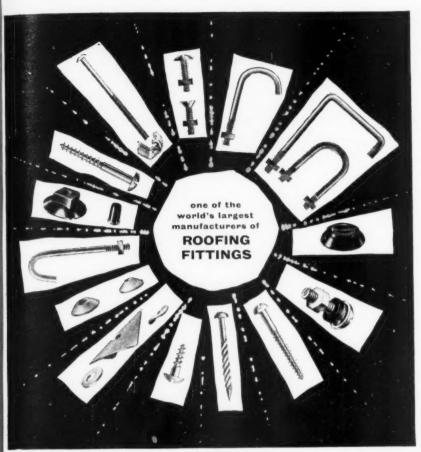
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