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South African Architectural Record: Journal of the Transvaal, Natal and Orange Free State Provincial Institutes of South African Architects and the Chapter of South African Quantity Surveyors

1932

Institutes of South African Architects and the Chapter of South African Quantity Surveyors

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Acting Honorary Joint Editors

Rex Martienssen

Denys Lefebvre

Business Manager

A. S. Pearse

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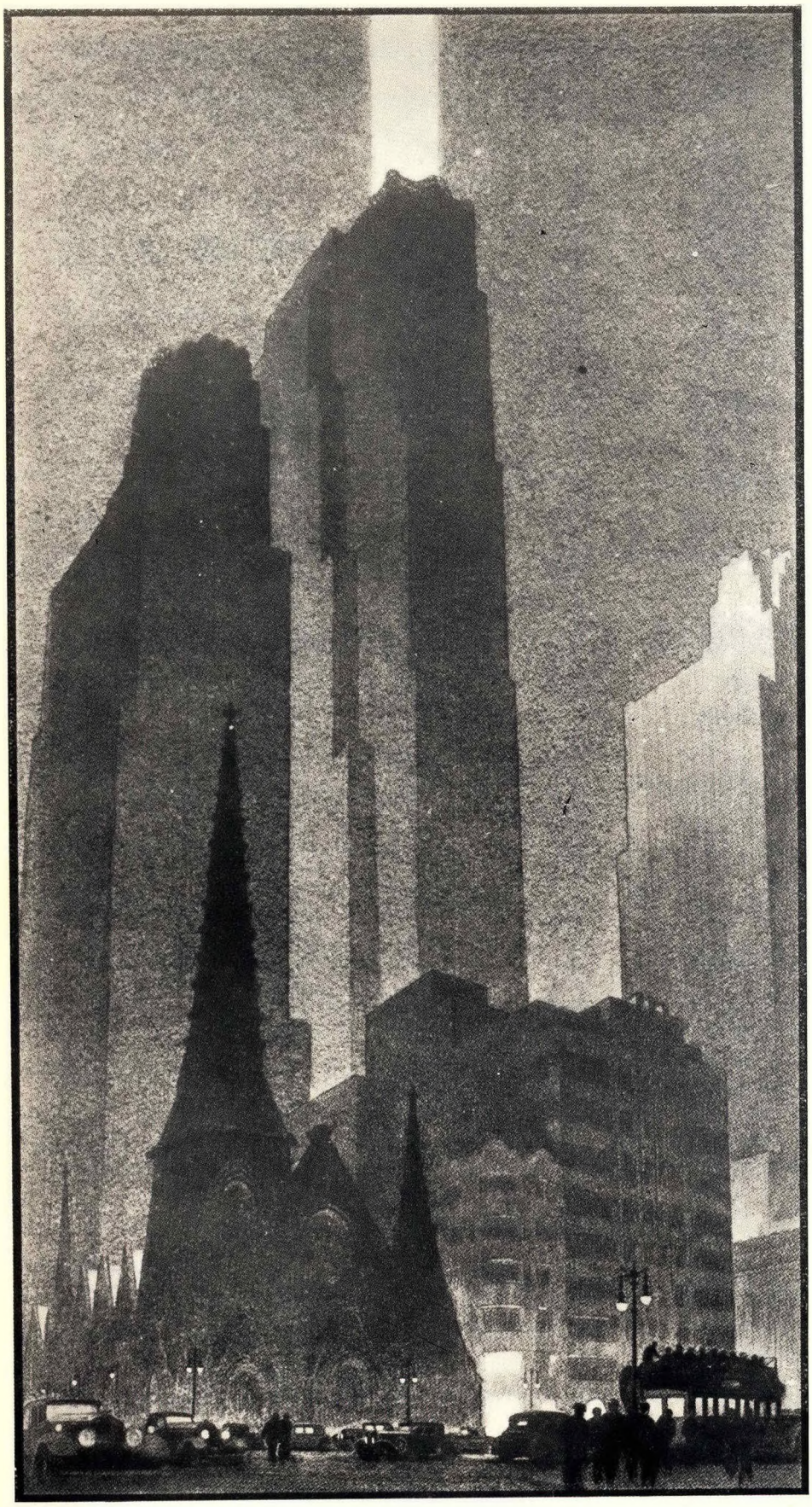
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the south african architectural record

The journal of the Transvaal, Natal and Orange Free State Provincial Institutes of South African Architects and the Chapter of South African Quantity Surveyors.

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Volume Seventeen Number Three, March Nineteen Hundred and Thirty Two.



ROCKEFELLER CITY,

NEW YORK.

Reinhard & Hofmeister, Corbett, Harrison & MacMurray, Hood & Fouilhoux, Architects.

From the Architectural Forum.

the south african architectural record

Volume Seventeen Number Three. March Nineteen Hundred and Thirty Two

impressions from america

being extracts from Professor Pearse's letters

From letters received, Prof. G. E. Pearse is having an enjoyable and profitable time in America. The following extracts give a very vivid idea of how the city of sky-scrapers strikes the visitor.

"We left Southampton last Wednesday, this is Monday, January 11th, and crossed to Cherbourg which we reached about 4 p.m. The sea was very rough and it rained most of the way, but, in this colossal boat (R.M.S. Berengaria), it was hardly noticeable. We left Cherbourg about 6 p.m. The weather has been dreadful and until yesterday morning, most terrific seas so that our portholes have been closed most of the time. In spite of this, we have managed to get in one or two games of deck-tennis between showers. This morning we passed through a blizzard and it is snowing now. This boat is a luxurious floating hotel and one of the biggest afloat. It is nearly 53,000 tons and we do over 500 miles a day. She uses 800 tons of oil fuel and has four great propellers. To see her ploughing through the great seas such as are never seen on the South African route, is truly wonderful.

The main promenade deck is about sixty feet above the water and is partially enclosed with windows, but, in spite of this, some windows were broken by waves a day or two ago. The lounge is over sixty feet wide and about eighty feet long without any pillars to break the floor area and, at one end, is a concert platform. It is beautifully furnished and effectively lit. There is a great ballroom with dancing-floor and a palm court. The swimming bath is Graeco-Roman in style with great columns surrounding the bath richly inlaid with mosaic. Between the columns are white marble seats and a beautiful white marble fountain on a terrace at one end. A gallery runs round the hall above the cosy dressing rooms. There is a great gymnasium fitted up with all sorts of apparatus. We have a picture show every evening either talkie or silent films and music from an excellent orchestra. The only drawback is that everything is super-heated.

We have on board Sir Dennistoun Burney, who designed the R100 airship and is now taking over to America the very latest thing in motor cars. In this case, the engine is behind and so designed that on a good road and going seventy miles an hour one can read and write comfortably in the back seats.

We have a newspaper on our plates at breakfast every morning. I spent a morning in the engine room. The engines are colossal.

We have on board H. M. Bateman, the artist, who drew one or two amusing pictures, and also Rachmanoff, a famous Russian pianist.

I have just been talking to a man who has an enormous poultry farm near New York. He has about 10,000 birds and a 50,000 egg in-



Chrysler Building, New York.

cubator. He sells thousands of broilers (six weeks old cockerels) regularly. Blood tests are taken regularly of every bird and sent to the Poultry colleges.

January 14th. We landed yesterday. New York is really very bewildering and most impressive from the sea. A forest of towers The sky-scrapers are truly wonderful, but only one or two have real architectural merit. The majority are extraordinarily ugly. We visited one of New York's finest railway stations, a vast structure in which there are no signs of the trains and no advertisements.

It is a great marble and mosaic hall with the neatest ticket offices, stalls and subways to the railway platforms beyond. We went to the top of the Chrysler building, about nine hundred feet high. I went up to the top of the Empire State Building and looked down on the city by night. The building is twelve hundred feet high, one hundred and two storeys and then a great lighthouse tower.

I was introduced to the President of the Architectural League of New York. Parts of New York I like very much but the greater part I do not like. The people I meet are delightful. I dined at the Architectural League and met some of the leading architects. After dinner, we had a most interesting lecture by a Dr. Alexander, a great friend of Professor Hoernle of the Witwatersrand University.

I went to Columbia University, one of the largest in the States occupying a wonderful site overlooking New York. The buildings are huge but not impressive.

I had a warm welcome at the school of architecture from Dean Boring. They have wonderful equipment and a huge staff though students are limited to one hundred and twenty. Different members of the staff explained their work in detail. I went again next day and also looked in at the Metropolitan Museum—a wonderful show. On Sunday, I spent three hours on a tour of inspection of the more important public buildings. In the evening, I went to a really beautiful church called "small" here, but actually larger than anything in Johannesburg. The interior was gorgeously decorated in colour mosaic.

I spent the afternoon with one of the biggest firms of architects who are busy on one of the biggest building schemes in the world, consisting of four theatres all linked round a great office building sky-scraper. In addition, there are two other skyscrapers connected up with the main one—two huge buildings to be occupied by France and Britain for trade purposes.

This scheme is known as Radio or Rockefeller City, as it is to be a monument to the Rockefeller family. Leading artists are coming out from Europe to decorate it. In one corner there is a large church and the centre skyscraper is the headquarters of a great broadcasting company. Apart from the five architects employed, there is a staff of seventy-five draughtsmen.

I dined with Mr. Russel, secretary of Dr. Keppel of the Carnegie Corporation. We had a long chat on South Africa and America. We were waited on by a negress who was a B.A.

of an American University and who was working in order to make money to take her M.A. and become a teacher at a High School.

It is most interesting to see what the average American will do for a University education. Some boys get work as waiters, some stoke furnaces and mow the lawns at Universities and thus get free tuition and board and lodging. They can only be employed four hours a day so that their studies shall not be disturbed.

I had a long talk with Mr. Bertram, secretary to the Carnegie Corporation. He lived in South Africa from 1890 to 1898. He was first in Durban, then Ladysmith and then Harrismith and became secretary to the Van Ryn Mine in Johannesburg. He and Dr. Keppel get Boer tobacco sent them regularly.

The roads here are wonderful. All concrete and divided into four lanes for slow and fast traffic. You can go as fast as you like, but all the way there are electric signals like our robots in case of crossings. All main roads cross each other at different levels. In the city, the lights are all red or green in one street at one time. There is no speed limit. It is no use attempting to cross unless the lights are against the traffic !

Last night, I was the guest of honour at the annual dinner of the American Institute of Architects. This morning I was taken over one of the great engineering works—a huge concrete tunnel to carry water twenty-two miles from a main reservoir under two rivers to a remote suburb. The tunnel was seventeen feet across and eight hundred feet below the surface of the ground. The water is tested, purified and passed on to the consumer at the rate of six hundred and twenty-five million gallons per day. We saw the new Washington bridge with a clear space of three thousand five hundred feet.

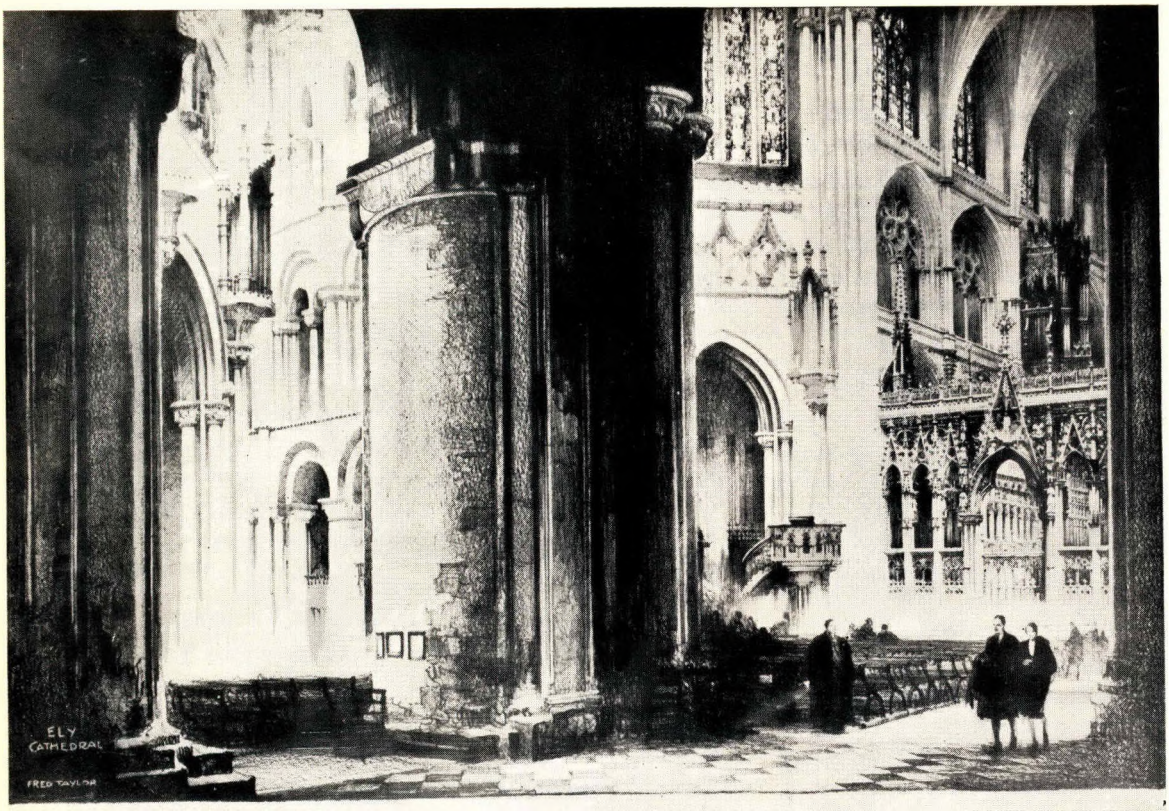
In between, I am spending morning and afternoon with various professors and practitioners getting an insight into their teaching methods, visiting students at work or buildings in course of erection.

On January 28th, Professor Pearse writes : "I attended the annual dinner of the New York chapter of the American Institute of Architects and was the guest of honour. The annual gold medal was presented to the architects of the Empire State Building, the tallest building in the world and rather a fine achievement.

I have been invited to act as one of the judges for three student competitions, representative work of all the schools, as the average number of drawings sent in for each is about five hundred and fifty, it will be some job.

I have been wonderfully received by the Deans and staffs of Columbia and New York Universities and shown their system of work in detail. It is most interesting but I feel that we do not lag far behind, except that they have a professor for every subject so that a high degree of specialisation exists.

I leave here in about two weeks time for New Haven (Yale University) Boston (Harvard and Massachussets Institute), Montreal (McGill), Toronto, Chicago, Pittsburgh, Washington, Philadelphia, Trenton (Princeton), Ithaca (Cornell), and then back here."



the railway poster exhibition.

how to encourage good work.

The art of the poster is one of the most significant things in the rapprochement of art and commerce. The British railway companies have certainly done a great deal to improve posters by getting high-class artists to turn out high-class work. To do this, they have, of course, been compelled to pay high fees to the artists and large sums for the best printing. But, as they have continued to do this for many years, one must presume that it pays them to advertise—artistically. As it seems to be difficult for many South African firms to remember the word "artistically," I am emphasising it here, that and the fact that if you want the best, you must pay.

The recent exhibition at Messrs. Herbert Evans of posters for the London and North Eastern Railway is quite typical of modern railway advertising. If one has fault to find with this interesting show of some one hundred and twenty posters, it is that there are almost too many and that the modern tendency to make a picture rather than a poster is strongly in evidence. There is something to be said for the carefully done landscape backed by fine colour printing good drawing and, perhaps, the omission of little points that might detract from the general effect. On the other hand, the orthodox poster with its striking appeal to the imagination is simpler and it seems to me on the whole, more effective. It certainly arrests the eye-pleasantly—whereas the more careful picture is liable to be overlooked unless the interval between trains or at railway stations is longer than the average.

In this country where art development is still slow and not too widely dispersed, the bold, simple design will, for a long time to come, be the better advertising medium.



But to come to the pictures themselves. There is ample variety. Frank Brangwyn has a characteristic "Forth Bridge," a fine piece of work in subdued colouring that adds to the dignity of the impression.

Fred Taylor has a large number of examples, both in colour and monochrome. Tom Purvis has a useful little series : "Sea-Bathing," "Sea-Fishing," "Sea-Sports" and "Sun-Bathing." A. R. Thomson has another set of posters : "Then and Now," in which he demonstrates quite clearly and effectively the difference in comfort between "ancient" and modern modes of transport. It is true that "ancient" represents, mid-Victorian but, of course, there is a great gulf fixed between "then" and "now." He shows it at the seaside, in the train and at the races with amusing and, on the whole, convincing effect.

Frank H. Mason is another prominent poster-artist with excellent studies of which "King's Lynn," "Ullswater," "Aberdeen," and "Havens and Harbours" are typical examples. Austin Cooper has a series of great musicians, but he has also "Montrove" and "Yorkshire Coast." A. Lambert has a bright little study "Great Yarmouth" where the human element is skillfully introduced, an important factor in a poster which is intended to make a human appeal.

There is a series of cathedrals in monochrome of which "York" and "Ely" are excellent examples. The L. and N.E. railways are fortunate in that they serve a wide territory, rich in memories to the average Scot or Briton—full of cathedrals, castles, abbeys ; the Trossachs and Loch Lomond ; St. Andrews and other scarcely less famous golf courses ; the Norfolk Broad and a number of other districts on the seven thousand miles of line that this company maintains over what is, to South Africans, a somewhat restricted area in actual acreage. In these days of motor competition, railways all over the world have to compete vigorously in order to retain their passenger traffic and the L. and N.E. Railways show an example that even the S.A.R. might well consider carefully and follow to some extent allowing, of course, for differences in climate and conditions generally.

The main thing with the S.A.R. is the method of attack. Instead of compelling the British Government to obliterate their motor rivals (perhaps they would if they could ?) they try other and very effective means of persuasion. To people who have not their own cars and even to many who have, comfortable railway travelling is not to be despised and in these days of little imagination and many films, the artistic poster is a very valuable adjunct backed by the knowledge that it is advertising something worth going to !

So far, South Africa's posters, with one or two exceptions, have not reached a very high standard of art whatever the more material results. Partly because with our small population, the number of outstanding artists is likely to remain limited for some time and partly because the average South African business man has not yet realised what the British railways appear to have discovered—that good work deserves good remuneration and that even genius, especially in these material times, needs encouragement occasionally, if it is genius and the encouragement is discriminating !

Mr. A. H. Tatlow, the former publicity manager of the S.A.R. has been taking charge of these posters here and in Durban. It is quite true to say that it is largely due to his initiative in the past that this is only the latest of several other exhibitions and that, to some extent, the S.A.R. has helped to encourage poster-art in South Africa. In these days of depression, the lot of the poster-artist is hard because there is always a tendency in such times to regard artistic development as a luxury. The big British railway companies, despite increasing competition and small dividends, think otherwise, as this exhibition tends to show. A lesson that it may be hoped will not be lost on their South African contemporaries. D.L.

annual reports.

The Transvaal Provincial Institute.

To the Members of the Transvaal Provincial Institute.

Your Committee has pleasure in submitting this, the Fifth Annual Report, for the year ended 31st December, 1931.

COMMITTEE PERSONNEL AND MEETINGS.

Twelve ordinary and two special meetings of the Committee have been held during the year.

Sub-Committees on Finance, Practice, By-Laws, Art and Education and the Journal were appointed and have met as required and dealt with the various matters referred to them.

MEMBERS ROLL.

During the year, one new member, Mr. John Shaw has been elected, four members of this Institute have died and one, Mr. F. Roberts, has resigned. At the end of the year there were 265 members on the roll classified, as :—

Practising	106
Salaried	119
Retired	29
Absent from Union	11

OBITUARY.

Your Committee records with regret the deaths of Messrs. W. H. Stucke, P. Keeling, Spencer Waters and W. Tait Conner.

Mr. W. H. Stucke of the firm of Stucke and Harrison, was a Past President of the Association of Transvaal Architects and a personal friend of many of the members of the Institute. Among the many well-known buildings designed by Mr. Stucke may be mentioned the Standard Bank, Johannesburg, the S.A. Mutual Buildings at Capetown, Port Elizabeth, Durban, Johannesburg, Bloemfontein and Grahamstown, Locarno House, Geneva House, Calcutta House, Cathedral Mansions, etc.

Mr. P. Keeling was a member of the Institute, and the Association of Transvaal Architects since the year 1910. He came to South Africa in 1900 as Assistant Architect in the Engineering Department of the Central S.A. Railways and was later employed in the Engineering Department of the Johannesburg Consolidated Investment Co., Ltd.

Mr. Spencer Waters was a retired member of the Institute at the time of his death. He was a member of the firm Tully and Waters of Capetown which in pre-war days had an extensive practice at the Cape.

Mr. W. Tait Conner was a native of Glasgow, and studied Architecture in Scotland and London, being elected an Associate of the Royal Institute of British Architects in 1891.

FINANCE.

Subscriptions, after deductions of amounts waived in respect of certain members whose addresses are unknown and of others who are destitute, amounted to £899 17s. 0d. To this must be added the outstandings at 31st December, 1930, amounting to £171 1s. 9d., making a total of £1,070 18s. 9d. During the year payments by members amounted to £745 8s. 0d. leaving a balance of £325 10s. 9d. outstanding due by members at 31st December, 1931.

Sales of Conditions of Contract, etc., amounted to £45 6s. 2d. It was found necessary to print a further supply of these contract forms at a cost of £27 1s. 0d., which reduced the net income from this source to £18 5s. 2d.

It will be noted that an amount of £152 12s. 0d. has been received from the R.I.B.A. representing Moieties for 1930 and 1931.

The actual net excess of Revenue over Expenditure amounted to £115 1s. 10d. In view of the increase in outstanding subscriptions and the present financial conditions generally, on the advice of your Auditors and the recommendation of the Finance Committee, an amount of £75 has been added to "Reserve against Subscriptions" and a sum of £24 2s. 6d. has been written off Journal Advertisement Account.

The balance of Revenue over Expenditure is thus reduced to £15 19s. 4d.

The attention of members is drawn to the increased amount of their outstanding subscriptions and those in arrear are urged to make every endeavour to meet their dues to the Institute without delay.

A further amount of £170 has been received from the Central Council in reduction of the balance to be repaid on account of the Architects Act Fund, leaving £192 8s. 9d. to be refunded as and when funds permit.

The balance of Accumulated funds at 31st December, 1930, was £399 5s. 0d. to which has been added the £170 from the Central Council and £15 19s. 4d. from Revenue and Expenditure Account. From this account payments have been made to the Howden Testimonial, £50; the Benevolent Fund, £25; and Audit Fees arrears for 1927, £10 10s. 0d., bringing the total of the Accumulated Funds account at 31st December, 1931, to £499 14s. 4d.

COMPETITIONS.

Colonial Mutual Life Assurance Society, Ltd.; New Office Building, Durban ; Assessor, Mr. W. Hawke, F.R.I.B.A. Sixty-six designs were submitted and the awards made were : 1st, Mr. J. Gibbons, Johannesburg ; 2nd, Messrs. Lyon & Stekhoven, Capetown ; 3rd, Mr. G. Le Sueur, Durban.

Klipspruit Town Planning Competition : Assessor, Mr. Harold Porter, L.R.I.B.A., President of the Transvaal Town Planning Association, 25 designs were submitted and the awards made were : 1st, Messrs. Kallenbach, Kennedy and Furner, A.R.I.B.A. ; 2nd, Mr. Rex. Martienssen, B. Arch., A.R.I.B.A. ; 3rd, Mr. V. S. Rees Poole, L.R.I.B.A.

Limited Competition for Synagogue, at Benoni : Assessor, Mr. Gerard Moerdijk, A.R.I.B.A. The awards made were : 1st, Messrs. Kallenbach, Kennedy and Furner, A.R.I.B.A. ; 2nd, Mr. Max Goldstein ; 3rd, Messrs. Kallenbach, Kennedy and Furner, A.R.I.B.A.

Non-European Hospital, Durban. Limited to members of the Natal Provincial Institute: Assessors, Messrs. J. S. Cleland, F.R.I.B.A., and Harold Porter, L.R.I.B.A. Seventeen designs were submitted and the awards made were : 1st, Messrs. Cowin, Powers and Ellis, L.F. and A.R.I.B.A. ; 2nd, Mr. A. C. C. Woodrow, A.R.I.B.A. ; 3rd, Messrs. W. E. Langton and W. B. Barboure ; 4th, Mr. W. G. Moffat, F.R.I.B.A.

Recommendations regarding the appointment of Assessors and other suggestions in connection with competition conditions have been submitted to the Central Council and that body has appointed a sub-Committee to consider the revision of these conditions generally.

JOHANNESBURG MUNICIPAL BY-LAWS.

The revised By-Laws drawn up by the City Council, after the conference held last year, have received the approval of the Administrator and have been published in full in the January and February issues of the Journal.

Further amendments to Building and Drainage By-Laws have been submitted to your Committee and are now under consideration.

CONDITIONS OF BUILDING CONTRACT.

The Conditions of Contract Sub-Committee consisting of representatives of the Central Council and the Master Builders' Association held several meetings during the year. It is anticipated that the new Form, based on that adopted by the Royal Institute of British Architects, with alterations adapted to this country, will be approved and adopted in the course of the next few weeks.

PRETORIA LOCAL COMMITTEE.

This Committee was duly elected in April last, the members being Messrs. V. S. Rees Poole (Chairman), Mr. J. R. Burg, Vice-Chairman, and Messrs. T. Gordon Ellis, G. E. Fitzgerald, W. Gordon McIntosh, A. Fraser Lawrie, J. Lockwood Hall, J. S. Cleland and C. B. Lugg. Mr. Gerald Bernhard is the Honorary Secretary.

Regular meetings have been held during the year and valuable recommendations and suggestions submitted to the Provincial Committee.

A sum of £7 10s. 0d. was voted by your Committee towards the expenses of the Pretoria Committee.

R.I.B.A.

Messrs. T. Moore and A. L. Chapman, members of this Institute have been elected Licentiates of the Royal Institute during the year.

Fees payable by members of the R.I.B.A., who are members of Allied Societies, were reduced during last year as under :—Fellows to £3 3s. 0d. ; Associates and Licentiates to £2 2s. 0d. per annum.

The Centenary Celebration of the Royal Institute will be held in July, 1934.

Particulars regarding the Competition for the R.I.B.A. new premises were published in the June issue of the Journal.

The Royal Institute has discontinued the conduct of examinations in South Africa and full particulars regarding admission to membership of the Royal Institute by Students obtaining Degrees and Diplomas in South Africa were published in the June issue of the Journal.

READMISSION AFTER RESIGNATION.

The question of readmission of members after resignation was discussed at the meeting of the Central Council in April last and it was agreed that if a member should resign and later seek readmission to the Institute he must be treated as an entirely fresh applicant.

STANDARDISATION OF BRICKS.

Your Committee has held further meetings with representatives of the Clay Workers' Association and the Master Builders' Association, on this matter.

The adoption of the proposed standard of four courses of brick to the foot has been approved by the Central Council and it is anticipated that the use of this standard will be adopted generally throughout the Union.

THE JOURNAL.

The "S.A. Architectural Record," the journal of the Transvaal, Natal, and O.F.S. Institutes of S.A. Architects and the Chapter of Quantity Surveyors, was published quarterly throughout last year and your Committee records its appreciation and thanks to the Honorary Editor and Members of the Journal Committee.

From the beginning of 1932 the Journal is being published monthly and members will have received the first number of the new series. Your Committee understands that, from reports from all quarters, the new style and form of the Journal have been accepted with appreciation.

Members are again urged to assist the Committee by submitting matter and photographs for publication whenever possible or drawing the attention of the Editors to any interesting articles appearing in other Journals.

The ability to meet the expenses of this publication is dependent upon the support of advertisers and it is pleasing to record that this support has been accorded. Members, in return are requested to give their support to the firms who advertise in the Journal.

SOUTH AFRICAN ACADEMY.

The Twelfth Annual Exhibition was held in the Selborne Hall in March last and the general opinion of the public indicated that the class of Exhibits did not come up to the average of previous years. The older artists were less conspicuous than usual and the work sent in by many of the newer artists was, on the whole, rather amateurish.

It is regretted that members of the Institute do not support the "Architectural" section to a greater degree.

The generous grant from the City Council of Johannesburg which enables the Committee to hold this exhibition in the Selborne Hall is greatly appreciated.

The thanks of your Committee are extended to the Academy Sub-Committee, the Jury of Admission, the Hanging Committee and all who assisted in the arrangements for the Exhibition also to Messrs. D. F. Corlett and D. Aitchison for work and material generously supplied.

The Thirteenth Annual Exhibition is to be held in the Selborne Hall from the 11th to 23rd April, 1932.

TOWN PLANNING.

Your Committee is represented on the Council of the Transvaal Town Planning Association which is continuing its valuable work.

During last year the Association published a most interesting brochure, embodying a series of papers on Town Planning by Dr. Chas. Porter, Professor G. E. Pearse, Messrs. A. Stanley Furner, Harold Porter and E. H. Waugh, and illustrated by numerous diagrams.

This brochure was received with much appreciation and copies were applied for from all parts of the Union and Rhodesia. Further copies may be obtained from the Secretary of the Association, 67, Exploration Building, Johannesburg.

The Transvaal Town Planning Ordinance has been passed by the Provincial Council and will come into force on the 1st April, 1932.

Members who are interested may become members of the Town Planning Association at a subscription of 10s. 6d. per annum.

CARNEGIE GRANT.

During last year, Professor G. E. Pearse, of the School of Architecture, University of the Witwatersrand was awarded a grant by the Carnegie Corporation to visit the United States of America and Canada to study architectural education. Professor Pearse left at the end of the year and arrived in New York on the 14th January last. He will visit the principal Universities in the United States, and Canada at which architecture is being taught and will also study American Architectural practice.

GENERAL.

Your Committee during the year held enquiries into several reported cases in connection with the following matters :—

Members operating below the Scale of fees —Advertising—Unsettled Claims—and Unregistered persons preparing plans.

With regard to the latter a prosecution was instituted against an unregistered person holding himself out as an architect in Benoni and a conviction was obtained, but the Magistrate discharged the accused with a caution.

An application was made to your Committee by twenty-five salaried members in Pretoria, that because of the financial stringency as affecting salaried members, the subscription for such members be reduced from £3 3s. 0d. to £1 1s. 0d. per annum. This application was referred to the Finance Committee and forwarded with their report to the Central Council. It is regretted, however, that it is not possible to make any such reduction at the present time.

the cape provincial institute.

Annual Report, 1931.

MEMBERSHIP.

The membership of the Institute at the close of the year consisted of one hundred and ten Practising, forty-three Salaried, three Absentee and five Retired Members—a total of one hundred and sixty-one as compared with one hundred and sixty in 1930. It is with deep regret that your Committee has to record the passing of two members, Mr. T. P. J. Day, who died on 11th September, 1931, and Mr. Leonard McConnell on 2nd January, 1932.

MEETINGS.

One Annual General Meeting, one General Meeting and fourteen meetings of the Provincial Committee were held in the year under review, exclusive of numerous Sub-Committee meetings and other functions to be referred to later in this report.

Mr. Hawke, President of the Institute, was absent in Europe for six months, during which time Capt. Elsworth carried out the Presidential duties.

FINANCIAL.

The statement of accounts for the year under review is attached to this report. It will be seen that Revenue exceeds Expenditure by the sum of £17 15s. 11d., as compared with £24 17s. 0d. in the previous year. A further comparison of the two sets of figures shows, on the Income side of the account that subscriptions, due chiefly to irrecoverable amounts having been written off, are less by £18 13s. 10d.; R.I.B.A. refunds less by £4 18s. 0d. and Interest by £5 13s. 2d. Against these reductions, the revenue derived from the publication of the Institute's Year Book at £104 12s. 10d. shows a gain of £51 12s. 11d. In combination these figures give a net increase of revenue amounting to £22 7s. 11d.

Turning now to the expenditure side of the account, we find that savings have been effected in the following items :—Stationery and Printing, Depreciation, Legal expenses, and general expenses, plus two non-recurring

items in the 1930 account, viz., grant to the Howden Testimonial Fund and part cost of members' dinner amounting together to £19 3s. 1d. Against these savings are to be recorded an increase of £24 5s. 0d. in the expenses incurred by the Port Elizabeth Local Committee, and there are two new items, viz., Joint Practice Committee expenses £10 10s. 0d. and subscription to Chamber of Commerce £7 7s. 0d., which swell the expenditure for 1931, making it, after allowing for savings effected, £29 9s. 0d. greater than in the previous year.

Coming now to the Balance Sheet, it is seen that the Capital Account, representing excess of Assets over Liabilities, stands at £193 17s. 2d. as compared with £176 1s. 3d. a year ago. Bill Contributions refund Account, a liability shown in the former Account, has since been liquidated and an unclaimed balance therefrom transferred to our Benevolent Fund. The only other item in the Balance Sheet to which special reference need be made, is outstanding subscriptions at £247 0s. 10d. as against £194 2s. 10d. at the end of 1930. The increase may be attributed to the difficulty of collecting subscriptions owing to the existing depression. The levy payable by the Institute to the Central Council remains upon the same basis as before and further reference to this matter will be made later in this report.

THE CENTRAL COUNCIL.

Two meetings of the Central Council were held in the year under review, in April and December, the Institute's representatives at the former being Messrs. Hawke and Walgate, and at the latter Messrs. Delbridge and Elsworth. To these gentlemen thanks are due for the arduous and efficient services rendered by them to the profession in this connection.

As usual the activities of the Central Council and its Sub-Committees have covered a wide range of subjects, the most important of these being architectural education in South Africa, amendments to regulations, architectural competitions, re-instatement of Clause 3 (c) in the Act, and Conditions of Contract.

Earlier in this report passing reference was made to the levy payable by the Constituent bodies. At the December meeting of the Council, our representative again pressed for its reduction, but owing to the fact that a considerable sum is still due to the other Constituent bodies in respect of contributions to the Bill expenses, there was no alternative but to acquiesce in the levy being maintained at the present level until this obligation is discharged.

Nevertheless the Central Council's expenditure, thanks to the persistent efforts of your Committee, has been, and will be further cut down, and a reduction of the levy to a figure that will not press so heavily on the Constituent bodies may be looked for in the near future.

Since the Act came into operation some four years ago, this Institute's relationship with the Central Council has on several occasions been disturbed by misunderstanding arising from what we consider to be lack of clarity in the definition of the respective functions of the Council and the constituent bodies, as set forth in the regulations. It was felt by your Committee that the most effective means by which the situation could be improved and future harmony assured, lay in a revision of the regulations upon lines that would give full recognition to the Constitutent Bodies of the autonomous rights to which they are entitled under the Act.

Consequently, a resolution to that effect was submitted to and accepted by the Central Council at its last meeting, the resolution to be considered by the Constitutent Bodies and thereafter dealt with by the Council.

The remaining item to be recorded under this heading is the appointment of Mr. W. J. Delbridge as a member of the Standing Committee on Education and Examinations.

ROYAL INSTITUTE OF BRITISH ARCHITECTS.

Mr. G. C. Lawrence, R.W.A., F.R.I.B.A., of Bristol, England, continues to function as the Institute's representative on the Allied Societies' Conference of the R.I.B.A. Members of the Royal Institute will note with satisfaction that the subscription of overseas members has been reduced as follows :— Fellows £3 3s. 0d. ; Associates and Licentiates £2 2s. 0d. ; this arrangement to become operative as from 1st January, 1932.

LOCAL COMMITTEES.

The Local Committees at Port Elizabeth

and East London, established some years ago, continue their functions in the customary satisfactory manner. The President-in-Chief of the Institute of S.A. Architects was given a complimentary dinner during his visit to Port Elizabeth in connection with the Master Builders' Congress. With the object of stimulating interest in the affairs of the Institute, arrangements have been made for an exchange of Minutes of Proceedings between the local Bodies and the Provincial Committee.

CIVIC SERVICE COMMITTEE.

Members were informed in the last report that a Civic Service Committee had been established for the purpose of co-operating with other bodies aiming at the preservation and betterment of the amenities of the City of Cape Town, having particular reference to the foreshore development scheme then under discussion between the Railways and Harbours administration and the City Council. It was subsequently considered that the best method of making the Institute's influence felt in connection with this important matter was by co-operation with the Chamber of Commerce. It was therefore decided that the Institute should nominate a representative on the Chamber, and its representative upon election became a member of the Sub-Committee specially appointed by the Chamber to deal with the foreshore scheme.

Local members are aware that the scheme has been abandoned for the present the Government having decided that it could not be proceeded with on account of the depression.

JOINT PRACTICE COMMITTEE.

Amongst the various matters affecting the building industry dealt with by this Committee, perhaps the most important was the Master Builders' Tender envelope. It is now a matter of history that the years-old controversy between the Institute and the Local Master Builders' Association was brought to a satisfactory solution during the period covered by this report. The basis of settlement was :—(1) withdrawal by Master Builders of the endorsed envelope and the substitution therefor of an envelope merely identifying the tenderer as a member of the Association ; (2) recommendation by the Institute that its members should, whenever possible, confine their invitations to tender to members of the Association ; and (3) the provision of a working arrangement to obviate any difficulties that might be experienced in giving effect to the agreement.

The settlement involves no loss of dignity or sacrifice of interests on the part of either of the bodies concerned, and it is entirely due to the good offices of the Joint Practice Committee that it was consummated.

The terms of the agreement were advised to the members of the Institute by circular letter on 12th August.

VIGILANCE COMMITTEE.

A number of alleged breaches of the Act and Regulations were brought to the notice of this Committee and dealt with. The activities of non-registered practitioners shows no sign of abatement. This menace to the profession continues to engage the serious consideration of your Committee and the Central Council, and members may rest assured that as soon as the time is ripe for doing so, Parliament will be approached in connection with the re-instatement of clause 3 (c) in the Act. This clause, it will be remembered, debars any person, other than a registered member of the Institute, from performing the work of an architect for remuneration within the confines of a municipality. This was one of the matters dealt with by the Central Council at its last meeting.

NEW CONDITIONS OF CONTRACT.

During the year, your Committee has devoted a considerable amount of attention to the production of an improved form of Contract, designed to replace the existing blue and white forms at present in use—the former in the Cape and the latter in the other Provinces. The first steps in this direction were taken by the Drafting Committee composed of members of the Central Council and of the Federation of Building Trades Employers, but the document prepared by this body was not generally approved. Simultaneously the Royal Institute was also engaged in revising the Conditions of Contract in use in the United Kingdom, and it was felt by your Committee that the Drafting Committee, instead of beginning its labours afresh, would be well advised to await the overseas document, and thereafter to utilise it as a model for local requirements. This course was agreed to.

Since then the Royal Institute Conditions of Contract, duly ratified, have come to hand. It is an excellent document and with certain amendments to meet South African conditions—suggested by our representatives at the last meeting of the Central Council—should be eminently suitable for adoption throughout South Africa.

CITY BUILDING REGULATIONS.

It is understood that the revision of the Cape Town Building Regulations has been completed and submitted for approval to the Provincial Administration. It is anticipated that the Institute and other interested bodies will be afforded an opportunity of scrutinising the regulations before they are finally adopted. Subsequent to the period covered by this report the Joint Practice Committee was furnished with a draft copy of the Regulations and is now in communication with the City Council thereanent.

REFUND OF BILL CONTRIBUTIONS.

Your Committee has to report that the contributions made to the Bill Fund by members of the Cape Institute of Architects and the late Port Elizabeth Society of Architects have been refunded in full, the final instalment of fifty per cent. being paid out in June last. It is recorded as a matter of interest that the sum contributed by the two Cape Societies amounted to £703 8s. 0d., and that the building-up of the fund commenced some twenty years ago. Repayment of the contributions discharges the monetary obligation, but the Institute's moral indebtedness to those pioneers of registration who cheerfully taxed themselves for the benefit of their profession, without promise or expectation of reimbursement, remains, and should not be forgotten. The action of the Central Council in giving priority to the Cape Institute in the matter of bill contribution refunds is gratefully acknowledged. When the Council learned that the amounts were due to individual members and not, as in the case of other Constituent Bodies, to its general funds, this concession was voluntarily granted.

C.P.I. BRONZE MEDAL.

Mr. John Perry, F.R.I.B.A., placed before your Committee, late in the year, a proposal for the establishment of a medal to be awarded annually for the best example of architecture executed within the Cape Province—to be donated by the "Cape Argus." The proposal was accepted, conditions of the competition prepared and communicated to members by circular letter on 6th October, 1931.

The first competition under the regulations was won by Messrs. Black & Fagg, for their design of the new Standard Bank Building, St. George's Street, Cape Town, and that firm is heartily congratulated upon its success. Architectural students at the University were invited to prepare and submit competitive designs for the medal, and upon assessment of these the prize was awarded to Mr. H. A. P. Kent.

GENERAL MEETINGS AND OTHER FUNCTIONS.

During the year under review our local members were assembled together in connection with various functions of which the following is a brief resume : An exhibition of designs submitted in connection with the Johannesburg Public Library Competition took place on 15th and 16th April, and from 25th April to 2nd May the designs submitted for the Colonial Mutual Building in Durban were also on view.

An address on "Modern Electrical Illumination" was given by Mr. E. S. Evans, Director of Scala Lighting Service Bureau, Johannesburg, on 8th May, and a lecture on "The Development of Decorative Sculpture of Today," by Mr. H. V. Meyerowitz, on 11th September.

On 28th July a general meeting was held for the purpose of hearing the Committee's interim report upon matters of interest to the Institute and the profession generally. Amongst the subjects discussed were the Foreshore Development Scheme, the expenses of the Central Council, the restoration of R.I.B.A. Moieties to Provincial Institutes, Standard Conditions of Contract, the continued activities of non-registered practitioners, etc., etc.

The thanks of the Institute are due to the Sub-Committee responsible for arranging these functions.

THE LIBRARY.

The Library has been augmented by two gifts of architectural publications, viz. : five volumes presented by Mr. B. G. L. Mansergh, and one by Mr. James Morris. The value of

these books is enhanced by their being old editions now out of print, and the opportunity is taken of expressing the Institute's thanks and appreciation of the gifts. There has also been acquired by purchase the latest publication of the Wren Society, Volume VIII.

"The Architect, Builder and Engineer" journal has been sent monthly to all members.

The library is housed for the present at the School of Art in Orange Street, where the works may be consulted on week-days between the hours of 9 a.m. and 5 p.m.

THE SCHOOL OF ARCHITECTURE.

In the year under review, fifty-one Students attended the classes provided by the University of Cape Town, this figure by comparison with 1930, showing an increase of eleven students. Of these thirteen were first year, nine second year, eleven third year, seventeen fourth year and one fifth year student.

It has also to be recorded that four students were successful in passing the third year and one the fifth year examinations, the prize winners being :—

First year, H. Twentyman Jones.
Second year, E. R. Delbridge.
Third year (John Perry Prize), H. A. P. Kent.
Fourth year, A. Honikman.
Fifth year (A., B. & E. Prize), M. Berman.

The holder of the Degree or Diploma in Architecture awarded by the University is eligible for membership of the Institute of South African Architects.

Students who complete the first three years of the curriculum for the Degree or Diploma in Architecture may be granted exemption from the R.I.B.A. Intermediate Examination. Students who qualify for the Degree or Diploma in Architecture may be exempted from the R.I.B.A. Final Examination under certain conditions.

BENEVOLENT FUND.

Your Committee desires to direct the attention of members to the claims of the Benevolent Fund in the hope that those who are able to do so will take this means of helping some of their less fortunate professional brethren who, by reason of the existing depression, may be in need.

HONORARY AUDITOR.

Mr. B. G. L. Mansergh, the Institute's honorary auditor, is thanked for his services in this capacity.

GENERAL.

The number of applications for employment received in the year unfortunately exceeded all previous records. Members are again reminded that a Register of Architects seeking assistants and of assistants seeking employment is kept by the Secretary : also that copies of the scale of professional charges are obtainable at 3d. per copy.

W. HAWKE, President.

natal provincial institute.

Annual Report, 1931.

Your Committee has pleasure in presenting its Annual Report of its activities during the past twelve months.

The Committee much regret to report the loss by death of one of this Institute's members, Mr. Thos. Read, of the firm of Messrs. T. Read and Hurst, Durban. The late Mr. Read was a foundation member of the Natal Institute of Architects, and was highly esteemed by his colleagues.

The total membership of this Natal Provincial Institute is 61, composed as follows :—

Practising Members, thirty-nine ; Salaried Members, eleven ; Absentee Members, six ; Retired Members, five.

The Committee for the year under review consisted of :—Practising Members : Messrs. W. S. Payne (President) W. G. Moffat (Vice-President), E. M. Powers, W. Paton, G. T. Hurst, F. J. Ing, H. E. Chick, W. B. Oxley, and Mr. C. S. M. Taylor, Salaried Member.

During the session under review twelve Committee Meetings have been held, and various matters concerning the profession and the Institute have been dealt with.

The President Mr. W. S. Payne was re-elected as this Provincial Institute's representative, with Mr. E. M. Powers as alternate on the Central Council of the Institute during the year.

Congratulations are extended to Mr. Payne on his election to the Office of Vice-President-in-Chief of the Institute.

Col. G. T. Hurst is this Institute's representative on the Natal Technical College Council.

Mr. Wallace Paton represents this Institute on the Art Consultative Committee of the Natal Technical College.

Mr. F. J. Ing was deputed to represent this Provincial Institute on the "Greater Durban Town Planning Committee."

Thanks are due to these gentlemen for giving much of their valuable time to the various matters concerning the profession.

FINANCIAL POSITION.

From the audited Balance Sheet and Revenue and Expenditure statement, a copy of which is enclosed herewith, it will be seen that your Institute is in a sound position. It will be observed that on the year's working there is a surplus of £70 1s. 0d., after writing off a sum of £31 10s. 0d. as bad and irrecoverable debts, carried to Revenue Account.

Of the outstanding subscriptions shown in the Balance Sheet part of these have been liquidated since the closing of the books.

The Committee much regret the indifference and inconsiderateness of several members in the matter of their subscriptions.

Members are reminded that the subscriptions fall due on the 1st January in each year and payment should be made as early as possible and thus save a deal of trouble and expense in rendering accounts and collecting the fees.

HOWDEN SCHOLARSHIP FUND :

Your Committee donated the amount of £10 10s. 0d. toward the "Howden Scholarship Fund" of the Institute of South African Architects.

CUTTING OF FEES.

Cases of "cutting of fees" have been brought to the notice of the Committee, but without sufficient proof of this practice your Committee can do nothing to remedy this evil.

Members are reminded that the Scale of Charges in pamphlet form is to be had from the Secretary at 3d. per copy. This form is a very convenient means of bringing the tariff to the notice of Clients.

NEW CONDITIONS OF CONTRACT.

As a result of the labours of the Joint Committee and Provincial Committees of the Institute the new R.I.B.A. Conditions of Contract, with a few minor modifications, have been recommended for adoption, and are now in the hands of the Central Council for confirmation.

ARCHITECTURAL EDUCATION.

The Committee would remind Members of the facilities now afforded in courses of architectural education at the Natal University College, Durban. And would urge upon members the necessity of pupils attending day-time classes, as well as evening classes. It is only by showing the authorities that such classes are well attended that further facilities will be afforded them.

The Central Council has under consideration the adoption of the following addition to the "Unprofessional Conduct" Regulations :—

("It shall be unprofessional conduct for any Architect)

"To employ any pupil or assistant who seeks to become a registered architect, unless the said pupil or assistant shall have had at least two years' tuition at a recognised School of Architecture."

COMPETITION.

The Natal Provincial Administration invited competitive designs, limited to members of the Natal Provincial Institute of Architects practising in Natal, for Proposed New Non-European Hospital to be erected in Durban. This innovation is much appreciated and it is hoped this change will lead to government work in Natal being put out to local practitioners, a custom in vogue in the Transvaal and Cape Provinces.

The Assessors, Messrs. J. S. Cleland, F.R.I.B.A., M.I.A., and H. Porter, L.R.I.B.A., M.I.A., appointed by the Natal Provincial Administration to adjudicate on the designs submitted, have made their awards as follows :—

First, Messrs. Cowin, Powers and Ellis, Durban ; Second, Mr. Alan Woodrow, Durban ; Third, Messrs. Langton and Barboure, Durban ; Fourth, Mr. W. G. Moffat, Durban.

In accordance with the conditions of the Competition the seventeen designs received were exhibited, by permission of the Durban Town Council, in the Municipal Art Gallery, from 10th February to 17th February.

S.A. ARCHITECTURAL RECORD.

During the year the "S.A. Architectural Record" has been delivered quarterly to all members and no doubt much appreciated.

Advice has been received that this "Journal" will be issued as a monthly publication as from January, 1932.

It is requested that members co-operate by forwarding for publication any articles of interest to the profession.

Matter relating to Architecture, Town Planning, Quantity Surveying and the Building Industry will be considered by the Editors.

Thanks are due to the R.I.B.A. and Allied Societies for their journals and year books received from time to time.

o.f.s. provincial institute.

Annual Report. 1931.

President's Report.

Gentlemen,

I have pleasure in welcoming you here to the Fifth Annual General Meeting of the O.F.S. Provincial Institute of Architects and to report as follows for the Year ending December 31st, 1931.

MEMBERSHIP.

Mr. A. J. Stewart transferred to this Provincial Institute and Mr. Gordon Leith kindly enrolled in addition to his Transvaal Membership.

Mr. R. H. Eddy who recently passed his examination for the S.A. Institute has applied for Membership in this Province and will be registered in due course.

COMMITTEE.

Meetings for the year numbered twelve.

Your Committee has among other activities been concerned with New Conditions of Contract, Municipal Building Regulations, Bloemfontein Technical College, O.F.S. Town Planning Association and cases of un-registered persons describing themselves as Architects.

PROVINCIAL CIRCULARS.

This O.F.S. Provincial Institute has governing powers within its own borders and I would draw Members attention to their Committee's request that all drawings issued by them should bear the name of the individual or Firm responsible.

O.F.S. TOWN PLANNING ASSOCIATION.

A certain amount of progress has been made in connection with the formation of this desired body. Much of our information had to be obtained from outside this Province and we have need for an energetic Hon. Secretary who can bring time and knowledge to its development.

This Institute has donated a sum of £10 10s. 0d. towards the necessary initial expenditure.

THANKS.

I desire to tender my thanks to the Vice-President, Committee and Hon. Secretary for their help and services to the Institute during the last twelve months.

FINANCE.

The Revenue and Expenditure Account and the Balance Sheet has been circulated to all Members. The Gross Credit Balance of £65 15s. 10d., including fees owing is gratifying.

The item £22 13s. 0d. arrear subscriptions is being steadily reduced.

The Nett Cash Balance, you will note, at December 31st was £49 2s. 1d. Our Funds are invested with the Bloemfontein Board of Executors at two and a half per cent. interest per annum., computed monthly.

CENTRAL COUNCIL.

Our cordial relationship with the Central Council has been maintained.

VISITS.

During the past year we had the pleasure of receiving Mr. W. Hawke now Immediate Past President-in-Chief whom we entertained at Dinner with various local guests to meet him.

The visit was in succession to that of Mr. Robert Howden and I feel that the visit of the President-in-Chief, for the time being, is most helpful in broadening our outlook on the various problems our profession is called upon to deal with and must be perpetuated as an annual event.

PRESENTATION.

At the above dinner Mr. Hawke presented a silver cigarette case from this Provincial Institute to Mr. H. G. de la Cornillere, the inscription recording Mr. Cornillere's services to the Institute, over the ten years period he was President.

YEAR BOOK.

You will notice how this publication has been improved by the inclusion of the Act and Regulations.

Competition Regulations.—The Central Council sub-Committee on this important matter is engaged in improving the same and it is to be hoped that a workable scheme for most Competitions to be conducted in two parts (a) Preliminary General Sketch ; and (b) Selected few therefrom for the Final, will be drawn up in such a manner as to become that most favoured by Promoters thus effecting a saving to the profession of a large amount of time which is at present wasted.

BUILDING CONTRACT AGREEMENT.

The joint Committee of Architects, Quantity Surveyors and Builders is still engaged on this. A great deal of work has been done by this Committee in drafts and amended drafts and what we trust is a final Form will be presented to the next sitting of the Central Council.

CENTRAL COUNCIL EXPENDITURE.

A strong sub-Committee went carefully into all details under this heading, every possible pathway was considered and finally a scheme proposed by which an estimated saving of £200 per annum was adopted.

SUBSCRIPTIONS.

The amount per member remains as in last year and I am of the opinion that if there is to be any reduction in the near future it must be achieved by the Provincial Institute and Chapter reducing their own local expenditure. It is necessary to retain the levy to the Central Council at its present amount in order that our debt to subscribers to the cost of the Parliamentary Bill be eventually cleared. This amount was some time back :— Transvaal Institute, £1,746 ; Cape Institute, £800 ; Chapter, £464 ; Natal Institute, £292 ; O.F.S. Institute, £77.

Some Institutes have had, through the goodwill of the others, preferential treatment in repayment and faith must be kept with the remaining creditors whose amounts are roughly :—Transvaal Institute, £192 8s. 9d. ; Natal Institute, £30 16s. 0d. ; Chapter, £23 3s. 0d.

CENTRAL COUNCIL BALANCE SHEET.

Some time ago your Delegate to the Central Council was instructed to ask for the Annual publication of the above but the Council deemed it inexpedient at that date ; it is now decided that the Annual Balance Sheet of the S.A. Institute shall in future be circulated to all members.

ROBERT HOWDEN TESTIMONIAL.

You have read in the Professional Press of the success of this appeal. Over three hundred and sixty members of the Architectural and Quantity Surveying Professions subscribed. Mr. and Mrs. Howden received a suitably inscribed silver salver, through Mr. Howden the Institute now possesses a President-in-Chief's Jewel of Office and the Howden Prize Fund at present invested at interest amounts to £170. The Trustees will probably announce the terms for the first award in the forthcoming Year Book, and have decided to still keep the Subscription List open.

GENERALLY.

The present position of the Architectural and Quantity Surveying Professions in this Province and throughout the Union is of grave concern to us all. South Africa, a land of high wages for skilled labour and thus a land of expensive products, is at present trying to dispose of its ordinary exports by taxing the South African public the difference between what other nations are willing to pay and that which our producers require for their goods.

Trade is stagnant, poverty is rife and may become rampant, skilled tradesmen out of work are tramping from Province to Province, money is ceasing to circulate.

In connection with the almost total disappearance from the market of the would-be building-owner it must be realised that the public are aware of railway and civil service reductions in wages and allowances amounting often to twenty-five per cent., Parliament arranging cuts of from eight per cent. to fifteen per cent. for others, commercial institutions effecting reductions up to twenty-five per cent. or total retrenchment; it may therefore not be unnatural to presume that before the building-owner once more becomes active he will look for some twenty-five per cent. reduction in the agreed Schedule of Building Employees wages. Should this open indication that the building trade is sharing the common burden take place it might lead to some brightening of the situation and assist toward "the many," rather than "the few" finding employment.

It behoves our own Members in such a time to cling closer together, to let our voice be heard in unified action rather than individual plaints in an endeavour to find solutions to our difficulties; to accomplish together where singly we would fail.

I sincerely trust the end of this year will be brighter than its beginning.

FREDK. W. MASEY.

the chapter of south african quantity surveyors.

Board's Report for 1931–32.

To Members of the Chapter,

Your Board has pleasure in presenting its Annual Report. The Board for the year under review (i.e., from March 15th, 1931, to March 12th, 1932), consisted of :

"Solely Practising" Members : Messrs. H. Bell-John, E. B. Farrow, D. J. Laing, T. Moore and W. Selkirk.

"Dual Practising" Member : Mr. R. Howden.

"Salaried" Members : Lt. Col. W. E. Puntis and Messrs. A. W. Springthorpe and R. J. C. Prentice.

Mr. R. Howden was unanimously elected President for the year, and Messrs. H. Bell-John and D. J. Laing, Senior and Junior Vice-President, respectively.

During the year under review there were thirteen meetings of the Board (six ordinary and seven "emergency"), in respect of which the following is the attendance record : W. E. Puntis, 13 ; E. B. Farrow, 12 ; T. Moore, 12 ; R. Howden, 11 ; D. J. Laing, 11 ; R. J. C. Prentice, 11 ; A. W. Springthorpe, 11 ; W. Selkirk, 10 ; H. Bell-John, 9.

In pursuance of its policy of attending, as a Board, to all matters possible, one Committee only has functioned during the year, viz., the Finance Committee, consisting of Mr. D. J. Laing (Chairman), Mr. E. B. Farrow, Mr. W. Selkirk and the President (ex officio).

CENTRAL COUNCIL.

The following members represented the Chapter on the Central Council of the Institute during the year : T. Moore (Alternate, H. Bell-John) ; D. J. Laing (Alternate, F. D. Hickman).

Under the Regulations pursuant to the Act, Lt.-Col. W. E. Puntis, in his capacity as Chief Government Quantity Surveyor (Alternate, Mr. W. M. Warne), is one of the two Government nominees on the Central Council, and as such is entitled to a permanent seat.

THE INSTITUTE'S PRESIDENT-IN-CHIEF.

The Board has to record its gratification that a "Solely Practising" Quantity Surveyor, in the person of Mr. T. Moore, was elected by the Central Council as the President-in-Chief of the Institute of South African Architects for the year 1931-1932.

MEMBERSHIP.

The total membership of the Chapter, compiled as at March 4th, 1932, from the information available to the Secretary, is one

hundred and forty-seven, composed as follows :—

Members Practising Solely as Quantity Surveyors, 26 ; Members Practising as Architects and Quantity Surveyors, 41 ; Salaried Members, 50 ; Retired Members, 24 ; Absentee Members, 3 ; Honorary Members, 3.

The Board has pleasure in recording, during the year under review, three new enrolments : R. H. F. Blandy, Livingstone, Northern Rhodesia ; C. L. F. Borckenhagen, Johannesburg ; N. N. Moore, Pretoria. All Salaried Members.

The Board has to record with deep regret the passing during the year of two members of the Chapter : Mr. Spencer Waters, a former member of the Board, a zealous worker for the profession of Quantity Surveying ; and Mr. W. H. Stucke, who in addition to being one of the best known Architects in South Africa, was also a Professional Associate of the Chartered Surveyors' Institution.

The following resignations are recorded : F. W. Jameson, S. W. S. Morris, C. H. Stott, R. V. Sullivan.

QUANTITY SURVEYING EDUCATION IN SOUTH AFRICA.

The Five Year Degree Course in Quantity Surveying is now available at the University of the Witwatersrand–B.Sc. in Engineering (Q.S.)–and at the University of Pretoria–B.Sc. (Q.S.). The former Three Year Diploma Course in Quantity Surveying has been replaced by a Four Year Diploma Course, the final examination of which is of the status of the Final Examination of the Chartered Surveyors' Institution.

The following figures indicate, as at the end of 1931, the numbers of Quantity Surveying Students registered at the Universities of the Witwatersrand and Pretoria :

Diploma Course : First year, 16 ; Second year, 13 ; Third year, 13.

Degree Course : First year, 3. Total number of students, 45.

There are, of course, Quantity Surveying Students in other parts of South Africa, who, unable to reside in either Pretoria or Johannesburg, have no alternative but to obtain tuition by correspondence.

Students' Prizes. The Chapter's Gold Medal (3rd year), Book Prize for two guineas (2nd year), and Book Prize for one guinea (1st year) were awarded respectively to the following students during 1931 : 3rd year, J. S. Hodge ; 2nd year, E. F. Allen ; 1st year, A. R. D. McIntosh.

Chair of Quantity Surveying. The unanimous resolution of the Board, that it desires that a Chair of Quantity Surveying be established in South Africa, has been and still is the subject of consideration as between the University of the Witwatersrand, the University of Pretoria, and the Standing Committee on Education and Examinations of the Institute.

Qualifying Examination. With effect as and from April 1st, 1932, the Hon. the Minister of Education has approved of the Final Examination of the Chartered Surveyors' Institution as a qualifying examination, instead of the Intermediate Examination, as heretofore.

GOVERNMENT WORK.

Early in 1931 there was a likelihood (unfortunately since negatived) of Union Government Quantity Surveying Work being given out to private practitioners. As the result of negotiations between P.W.D. officials and the Board, a scale of fees in respect of such work was agreed upon.

STANDARD SYSTEM.

One thousand copies of the new edition of the Standard System were printed, of which about three hundred and forty have been sold, to members, students and Master Builders.

CHAPTER'S FINANCIAL POSITION.

Members are referred to the Explanatory Statement accompanying the Chapter's Balance Sheet and Revenue and Expenditure Account, to which the Board has nothing to add.

Members of the Chapter will feel grateful to those who have so generously donated sums totalling £154 and thus helped to wipe out the serious deficit with which the Chapter was faced.

NEW "CONDITIONS OF CONTRACT."

There is every likelihood that, in the very near future, the new "Conditions of Contract" (based on the R.I.B.A. 1931 document and modified slightly to conform to South African requirements) will be issued, as the result of agreement between the Institute, the Chapter, and the Federation of Building Trade Employers.

BOARD'S THANKS TO PRESIDENT.

The Board wishes to record its thanks to the President, Mr. R. Howden, for his stimulating interest and guidance during the year. Despite physical indisposition, from which fortunately he has recovered, the President has at all times been ready to devote himself to the service of the Chapter.

BOARD'S THANKS TO SECRETARY.

The Board's appreciation of the excellent services rendered by your Secretary, Mr. J. S. Lewis, during the year can best be understood by its unanimous recommendation to the Central Council that he be elected an Honorary Member of the Chapter.

President's Report.

To Members of the Chapter.

In reviewing the past year's work as affecting Quantity Surveyors one must feel that satisfactory progress has been made and that as a result of the Board's deliberations the position of the Quantity Surveyor is more clearly established than formerly.

One of the most important matters dealt with was the new Building Contract, and it is satisfactory to note that this document has been accepted by all parties concerned and is now authorised to be used in place of all previous documents.

The Joint Contract Committee on which your Board was duly represented accepted the R.I.B.A. document practically with only those amendments which were necessary to conform to South African law and procedure, the object being that in the event of any litigation in Great Britain arising out of the document, we, in South Africa, should secure the maximum benefit from British Court decisions.

The position of the Quantity Surveyor in the document (i.e., when the words "Quantity Surveyor" are inserted in the blank provided for same) is such that he is placed in a stronger position than previously. He is, in such case, not only authorised to prepare the Bills of Quantities, but also the variations and the measurements for certificates, etc., the fees in respect of which are provided for by Parliamentary sanction, on a scale that no judge or magistrate has the right to deviate from.

A further matter dealing with the recognition of Quantity Surveying as a profession has been the tentative agreement by which to all intents and purposes a Chair of Quantity Surveying will be established, it being amicably arranged that the University of Pretoria should undertake to have full-time (Degree) and part-time (Diploma) courses in Quantity Surveying. The profession is to be congratulated on this attainment, and no doubt the Students of to-day who become the Quantity Surveyors of the future will be the first to recognise the self-sacrificing spirit of the members of the profession of to-day in providing for their (students') future.

Certain reciprocal arrangements have already been made with the Chartered Surveyors' Institution in Great Britain, and it is hoped that, when the Chair of Quantity Surveying is completely established, the Chartered Surveyors' Institution of Great Britain will entrust to the Chapter the complete control of their examinations in South Africa, as has been done by the Royal Institute of British Architects in respect of Architecture. This will mean the complete recognition by the Chartered Surveyors' Institution of the status of South African education and examinations in Quantity Surveying.

RELATIONS WITH AUTHORITIES.

The relationship of the profession with Local Authorities is still of the happiest. The Union Government has agreed that when giving out Quantity Surveying work, it shall be based on a scale which has been approved by your Board ; while with the Provincial Administration, though some slight difference of opinion exists, it is gratifying to report that no cases of injustice of any kind have occurred to members since the Administrator handed this work over to private practitioners.

The Board has had occasion to obtain counsel's opinion on several matters affecting the whole profession, duly conveyed to members through the minutes of the Board, and the actual opinions are carefully recorded by the Secretary for future reference.

Members must however bear in mind that however willing the Board may be to give its advice, it cannot commit itself or the Chapter's funds to supporting the claims of

any individual member who may have a personal grievance or private dispute with his client. Redress in such a case must be obtained from the Courts, and members cannot expect the Board to expend trust moneys on personal disputes. On the other hand, where a principle is involved which may affect the whole profession, then the Board will not only interest itself but permit the use of the Chapter's funds. No opportunity should therefore be lost, when litigation is resorted to, the effects of which may be detrimental to the whole profession, to notify the Board forthwith.

The finances of the Chapter have been such, chiefly because of the non-payment of subscriptions, that it was impossible to adequately run its affairs without a loss, and I take this opportunity of thanking the "Solely Practising" members for their generous assistance in the form of voluntary subscriptions to wipe out the deficit. I feel sure that, in the event of a further appeal having to be made, the "Dual Practising" members will be equally generous.

The diversity of opinion in the professions regarding the particular relationship between, and duties of, Architects and Quantity Surveyors, still exists. The opinion that Quantity Surveying is an integral part of the architectural profession and cannot be divorced from same, is still held by the majority of Architects, while the unanimous opinion of the Quantity Surveyors is that it is an entirely separate and distinct profession. I am firmly of opinion that on this point we shall have to agree to differ, but I am nevertheless of opinion that the question will be solved in due course in the next generation.

TRAINING OF STUDENTS.

The training and teaching of Students at the Universities is distinctly on separate lines, and though facilities exist by which the Students can take up the two professions, I nevertheless feel that when an Architectural Student has completed satisfactorily his Architectural courses, he will have neither the time nor the inclination to put in several further years of study and indentures to become a Quantity Surveyor.

Your new Board, consisting of five "Solely Practising" members, two "Dual Practising" members, and two "salaried" members, has been created after a much rougher passage than is usually the case. Owing to several withdrawals by members after nomination day, it was found necessary for the existing Board to fill such vacancies as early as possible. No election is therefore necessary this year, because the actual nominations after the withdrawals were less and not more than the required number of seats.

Personally, I am not yet satisfied that the Board is a truly representative one of the varied interests of the Chapter's membership, and I regret that a proposition moved by myself that the Board be increased from nine to eleven, to enable representation of certain interests not now represented, did not meet with the approval of the majority of the existing Board. I can only hope that next year this provision will be made.

Your Board has unanimously recommended your Secretary, Mr. J. S. Lewis, as an Honorary Member of the Chapter. This was not done without due thought and consideration. Mr. Lewis has been not only our Secretary but has interested himself so much in the welfare of the Chapter that a great deal of his time and experience has been devoted to the Chapter in many and more important matters than mere secretarial work. Regarding the Act and the Regulations, Mr. Lewis is so conversant with same that his knowledge is most useful, while regarding the position and welfare of Students, being Secretary of the Institute's Standing Committee on Education and Examinations, he is able to advise, and is continually doing so, what is best in their interests. With his wide administrative and legal experience, he has been and will continue to be a great asset to your Chapter.

I take this opportunity of thanking the members of the profession and particularly those of the Board, for their valued assistance to me during my term of office, and hope the relationship of the varied sections of the Chapter will be co-ordinated in the most friendly and helpful way.

ROBERT HOWDEN.
President, 1931-1932.

professional notes and news.

Port Elizabeth.



The foundation work on the new nine-storey building for the United Building Society is now well in hand and, all being well, it should be completed by June, 1933. The Diocesan Trustees of Grahamstown, who own the site adjoining the above, have signed the contract for the extension of the Nave of St. Mary's Church out to the street (as shown on the accompanying photograph of the perspective drawing of the two schemes). It will form a somewhat unusual feature of Main Street, and there is to be a chemist's shop under the church. The addition to the Provincial Hospital recently completed at a cost of approx. £72,000, has proved handsome and useful. The architects are Messrs. Siemerink and Walker. Apart from the New Law Courts, there is little, if any, large work being put out to tender.

The organising director of the National Federation of Building Trades Employers in South Africa has written to the Johannesburg Town Clerk stating that his executive is greatly concerned at the restriction in building activity which has become increasingly evident all over the Union and has created serious unemployment in the ranks of the artisans who, owing to the stress of existing economic conditions, find themselves denied an opportunity of earning a living. He further suggests that the Council should do its utmost to continue any building it may have in hand. In a covering report, the City Engineer points out that the Council is doing so as far as possible. The Fire Station is nearly completed, the Public Library is being begun and, so far, the Council has not slackened any of its activities.

The Twelfth Exhibition of the South African Academy will be held in the Selborne Hall, Johannesburg, from April 11th to 23rd, 1932. The Mayor of Johannesburg, Councillor D. F. Corlett, has promised to open the exhibition. Entries this year are quite up to the average, despite the depression! Arrangements have been made to remove one or two criticisms raised at previous exhibitions. Work will only be accepted from students for the "Students Section" when entered in the name of the student and certified by the Head of the Institution at which he is receiving tuition. It is hoped that the architectural section will be much stronger than in recent years. The exhibition was initiated and has been maintained by the A.T.A. and Transvaal architects should give it wholehearted support.

The S.A. School of Applied Art, Capetown, sends us its 1932 prospectus, tastefully got up and copiously illustrated. The booklet has been produced and printed by the Commercial Art Department of the School and follows to some extent German and Russian models for this class of work omitting capitals on the front page and in the captions to the illustrations which are excellently produced. If one has a criticism it is that a greater simplicity might have had an even more

pleasing effect, the multiple lines and other minor details rather take away from the dignity of broad spaces. But the general effect is pleasing.

Tenders for the new Johannesburg public library were opened in the City Council Chamber on March 2nd, the lowest being that of Messrs. Robert Forbes and Co., at £212,450, using white skilled and native unskilled labour, and £219,950 using white skilled and white unskilled labour.

There were 16 tenders, one of which was informal. The first amount is for White and native labour and the second for White labour only. The tenders were as follows :— Dunbar and Co., £242,295, £261,679 ; Van Boom & Ruyter, £239,875, £251,923 ; James Thompson (Pty.), Ltd., £237,992, £244,989 ; E. A. Sayle and Son, £235,404, £247,194 ; Clark and Downie (Pty.), Ltd., £234,604, £246,334 ; Johnston and Stronach (Pty.), Ltd., £234,289, £242,342 ; George Beckett, £231,100, £242,900 ; Reid and Knuckey, £230,000, £235,500 ; W. C. Kelfkens, £228,600, £241,600 ; D. Aitchison, £227,986, £235,195 ; Roseman and Co. (Pty.), Ltd., £227,850, £235,350 ; A. Gill, £225,754 14s., £237,473 5s. ; T. F. Scott, £225,140, £239,200 ; H. Berryman and Sons (Pty.), Ltd., £222,100, £225,500 ; Robert Forbes and Co., £212,450, £219,950.

Owing to an error in the casting of their tender, Messrs. Forbes and Co. withdrew and the Council has awarded the contract to Messrs. H. Berryman and Sons for £225,500 being the tender for white labour only. The excavations are now well advanced and it is hoped that building will begin early next month.

Mr. H. R. Eddy of Bloemfontein, having passed the modified examination conducted by the University of the Witwatersrand has been registered as a member of the S.A. Institute of Architects.

Industrial Designs, Competition, 1932.

Instructions to Competitors.

The Competition is divided into the following Sections :—Architectural Decoration, Textiles, Furniture, Book Production, Advertising and Commercial Art, Miscellaneous. Each section is divided into sub-sections as given in the preliminary prospectus and is open to two classes : (a) All British Subjects (with certain specified limitations as to age in the Architectural Decoration Section, and in the Textile Section) ; and (b) British Students in British Schools of Art, or kindred Institutions. An entrance fee of five shillings for each sub-section will be charged to each competitor, which will entitle him (or her) to enter one design (except in sub-section (1) of the Textile Section), or one prescribed set of designs ; the fee for any additional entries in a sub-section will be at the rate of 2s. 6d. for each additional design or prescribed set of designs. In sub-section (1) of the Textile Section an entrance fee of five shillings will entitle a competitor to enter five designs, and additional entries in this sub-section will be at the rate of one shilling extra for each design. Except where stated there is no limitation with regard to the number of designs a competitor may submit in any subsection. The amount of the entrance fee is to be forwarded with the entry form before May 21st. All cheques and remittances must be made payable to the Royal Society of Arts, and correspondence relating to the Competition should have the word "Competition" written in the top left-hand corner of the envelope. Entries can only be received from individual designers, not from firms. Wherever dimensions are given it is of the utmost importance that competitors should pay the most careful attention to them. They are selected for definite reasons, and competitors whose designs do not conform to them are liable to be disqualified from the Competition.

Designs must be mounted on a flat surface, not rolled up. In the case, however, of designs submitted by competitors resident abroad, they can be mounted on cartridge or other suitable drawing paper and forwarded in a roll in order to comply with the postal regulations with regard to size of package. The mounts used for the designs should be of a standard size, not smaller than quarter-imperial (15 in. x 11 ins.) ; they should not however, be larger than is necessary to take the design and descriptive label. Any mounts received which are considered too large for the purpose will be cut down to the requisite size. As the work of the Competition necessitates the handling of the designs for a great many purposes from the time they are unpacked until they are

returned, and they frequently have to be stacked or made up into parcels, it is advisable, in order to prevent rubbing and discolouration of other competitors' works, that a sheet of strong covering paper (preferably of a transparent nature, but something stronger and stouter than tissue paper), sufficiently large to protect the design without covering up the descriptive label in the bottom left-hand corner, should be gummed or fastened at the top of each mount in such a manner that it can be turned over and folded at the back of the mount when the design has to be inspected or hung up. The mounts used should not be unduly thick or heavy ; outsize solid wooden boards, unprotected stretcher frames, heavy millboards or extra thick plyboards cannot, except in special cases, be accepted ; glass frames are also prohibited. Competitors are warned that mounts in which unprotected sharp tacks or pointed paper-fasteners are used, or anything that is liable to cause injury to the persons handling the designs, or damage to the designs of other competitors, will not be dealt with. Each design must be on a separate mount.

Each mount must have a label securely affixed in the bottom left-hand corner on the front of the mount bearing the name and address of the competitor with a brief description of the design. If the design is entered in Class (b) (Student of a School of Art, or kindred Institution) the name and address of the School which the competitor is attending must be added. White Labels must be used by competitors in Class (a) and Buff Labels by competitors in Class (b). These labels will be supplied on application. When applying for labels competitors must state whether for Class (a) or Class (b). Particulars as to the number of separate designs, and the numbers of the sub-sections, for which labels are required should also be given. No design should be sent to the Royal Society of Arts ; but an entry form giving particulars of each design submitted must be filled in and signed by every competitor (whether entering direct or through a School of Art), and forwarded to the Secretary at John Street, Adelphi, W.C.2, as early as possible before May 21st. The designs may be forwarded by post, rail, or otherwise, or they may be delivered by hand at the Imperial College of Science and Technology, Imperial Institute Road, South Kensington, London, S.W., on Monday, June 6th ; Tuesday, June 7th ; or Wednesday, June 8th. If delivered by hand they must be received between 11 a.m. and 4 p.m. Correspondence and designs should not be addressed to the Imperial College of Science before Saturday, June 4th.

It is the practice of the Society to allow a short extension of time to overseas competitors, and provided their entry forms, fees, and designs are despatched in time to reach the Imperial College of Science and Technology, South Kensington, London, S.W.7., before July 1st, when the judging will commence, they will be accepted and dealt with. The necessary Class A or Class B descriptive labels will also be affixed to the designs submitted by overseas competitors, if there is insufficient time to apply to the Society for them.

Each design should be numbered consecutively. The price should be marked on designs accepted for exhibition except prize-winning designs claimed by the donor of the prize. Competitors must pay carriage to and from the Imperial College. Employees entering for the advertising section are asked to obtain the written consent of their employers when entering for the competition.

Correspondence.

Amalgamated Society of Woodworkers of South Africa.

The Secretary,
Institute of Architects.

Dear Sir,

My Executive have instructed me to approach your Association, to ascertain whether it is possible for them, in any future buildings that are contemplated, to introduce more woodwork for interior finishings, than is being done with present day construction.

They feel that the revolution that has taken place, and is still being practised, is one that will soon eliminate the skilled tradesman, the introduction of Iron windows, has to a large extent, been responsible for the displacement of numbers of Joiners, and it has not benefited kindred trades, but has

largely got into the hands of cheap coloured labour, the doing away with wood floors and skirtings in so many instances, has again lessened the chances of the carpenter for employment, so drastic indeed have been the changes in modern buildings, that one pauses before consenting to the apprenticing of a boy to the Trade, as present day methods of construction soon throws the tradesman out of work.

As the designers, we appeal to you to endeavour to assist the craftsman in every possible way, as your influence on the building public, to a large extent, decides them as to both exterior and interior finishings.

11th February, 1932.

Respectfully Yours,

(Signed) T. C. BROWN,

General Secretary.

amended bye-laws.

Continued from January Issue.

Repeal the first paragraph of Section 141 and substitute therefor the following new paragraph :—

If a portion only of a building be used as a theatre or a cinematograph hall, such portion shall be entirely cut off from the remainder of the building by fireproof walls and floors.

Repeal the sixth paragraph of Section 146 and substitute therefor the following new paragraph :—

Where a stairs discharge into a vestibule within six feet of an exit door serving the ground floor, it shall be arranged to discharge directly towards the street, and an extra door of the full width of such stairs shall be added for such stairs. No stairs shall discharge into any such vestibule if any part of the latter is more than sixteen feet from the street, unless such stairs discharge directly towards the street through separate and independent exits and in no way interfere with the exits from the main hall to such street. The width or dimension at right angles to direction to exit doors externally of such vestibule shall be at least one-third greater than the united width of all the doorways, passages or stairs leading thereto from auditorium. The doorways from such vestibule to a street shall extend along the whole street side of such vestibule and aggregate one-quarter more than the aggregate of all doors, passages and exits leading from the interior into such vestibule.

Repeal the third paragraph of Section 156 and substitute therefor the following new paragraph :—

If any level exceed three thousand square feet in area, it shall have at least three exits. If it exceeds six thousand square feet, it shall have at least four separate exits, and one extra exit for each additional three thousand square feet.

In no case shall exits required under these by-laws be less than twenty feet apart on any one level.

If a public building is incorporated in a building, portion of which is used for other purposes, all exits, passages, gangways, corridors and staircases required for such public building shall be separate and independent from those required for the use of the rest of the building.

Schedule B—Delete sub-heading "Business Streets."

Delete and add to the names mentioned in the Schedule as follows :—

Delete :—

Albert Street from Loveday Street to Kruis Street ; Bree Street from Malherbe Street to Diagonal Street ; Bree Street from Harrison Street to End Street ; Central Avenue, Mayfair, from boundary of Fordsburg to Bird Street ; Keizer Street from Noord Street to Bree Street ; Kerk Street from boundary of Newtown to End Street ; Kerk Street from Melville Street to Diagonal Street ; Simmonds Street from Anderson Street to Bree Street ; Hol Street from Plein Street to Bree Street ; Hol Street from Pretoria Street to East Avenue.

Add :—

Albert Street from Loveday Street to End Street ; Bree Street from Malherbe Street to End Street ; Central Avenue, Mayfair, from boundary of Fordsburg to College Street ; Wanderers Street from Jeppe Street to Smit Street ; Kerk Street from End Street to West Street ; Booysens Road from Sauer Street to

boundary of Booysens; Eloff Street Extension from Eloff Street to junction Turffontein Road and La Rochelle Road; Simmonds Street Extension from Simmonds Street to Village Road; Salisbury Street from Eloff Street Extension to Wemmer-Jubilee Road; Wemmer-Jubilee Road from Eloff Street Extension to Rosettenville Road; Stephenson Street from Eloff Street Extension; Faraday Street from Eloff Street Extension to Rosettenville Road; Rosettenville Road from Von Weilligh Street to Newtown Street; Concord Road from Langston Street to S.A.R. Mineral Line; Heidelberg Road from Rosettenville Road to End Street Extension; Langston Street, from Mining Ground to Concordia Road; Jan Smuts Avenue from Stiemens Street to Municipal Boundary; Bertha Street from Smit Street to Ameshoff Street; De Korte Street from Simmonds Street to Bertha Street; Jorissen Street from Simmonds Street to Graf Street; Juta Street from Simmonds Street to Bertha Street; Leijds Street from Simmonds Street to Biccard Street; Simmonds Street from Simmonds Street Extension to Bree Street and from Leijds Street to Viljoen Street.; Viljoen Street from Subway to Smit Street; Wolmarans Street from Quartz Street to Viljoen Street; Smit Street from Nugget Street to Solomon Street; Biccard Street from Viljoen Street to Stiemens Street; Hancock Street from End Street to Wanderers Street; Edith Cavell Street from Plein Street to East Avenue; Kotze Street from Hospital Street to Catherine Avenue; Melle Street from Viljoen Street to Stiemens Street; Hospital Street from Smit Street to Ameshoff Street; Prairie Street from Geranium Street to Verona Street; Augusta Road, Regent's Park; Gabriel Road, Forest Hill; Church Street, Mayfair; Hanover Street from Central Avenue to Crown Mines; New Clare Road, Industria; Watt Street, Industria; Bunsen Street, Industria; Maraisburg Road, Industria; Parsons Street, Industria; Edison Road, Industria; Caxton Street, Industria; Kelvin Street, Industria.

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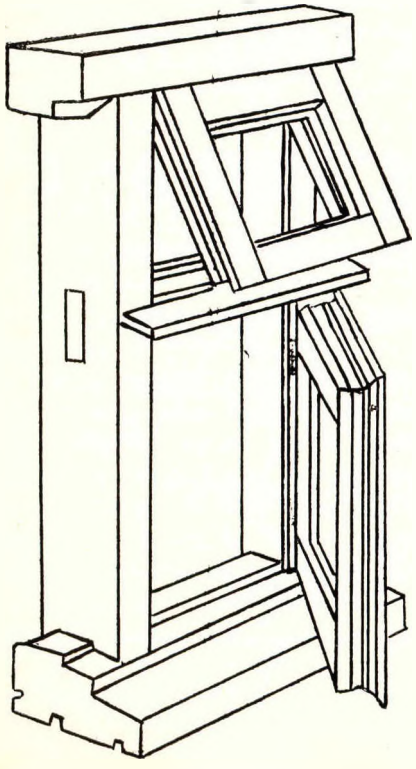
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