

CHAMBER OF MINES OF SOUTH AFRICA

5 HOLLARD STREET · JOHANNESBURG

Your Ref.:
Our Ref: PRD

P.O. Box 809, Johannesburg
Telephone 838-8211
Telegraphic Address: Bullion
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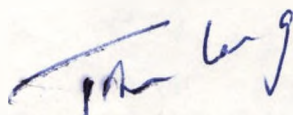
18th February, 1970.

Mr. J. Buckler,
Office of the Mayor,
City Hall,
JOHANNESBURG.

Dear Mr. Buckler,

In a conversation with His Worship the Mayor last month I undertook to provide him with a photograph of a stamp mill and an explanation of its working. I have much pleasure in attaching this information.

Yours sincerely,



JOHN LANG
PUBLIC RELATIONS ADVISER

Enclosures:

JAL/MC

THE BACKGROUND STORY OF THE STAMP SHOE
INCORPORATED IN JOHANNESBURG'S MUNICIPAL CREST

Where once the roar of the lion on the African veld had been drowned out by the roar of stamp batteries pounding away on the gold-rich ore in the early mining town of Johannesburg, today there is only the roar of city traffic.

Stamp-mills have all but disappeared from the South African mining scene. Their number has been dwindling steadily since the last major installation on the Witwatersrand in 1918. In their place, the mines have been installing tube mills - better suited to the different methods of extracting gold from the type of ore encountered as the mines went deeper.

By the end of 1948 there were still some 22 producing mines with a total of 4,577 stamps in operation. Today they are found virtually only on small mines.

There is still one stamp-mill in the heart of Johannesburg. It has never crushed any ore. It stands silent - a monument to Johannesburg's colourful mining past. Near the corner of Sauer and Marshall Streets, outside the new Union Corporation Building, is a full-scale replica of a stamp-mill.

Initially, the job of the stamp-mill was to crush the gold-bearing ore to a fine powder from which the gold could then be extracted. Their capacity was about 5 tons of ore per stamp every 24 hours. As more tube-mills were introduced, the stamps were relegated to the duty of a fine crusher, producing a coarser product which was then milled to a fine powder in the tube mills. In this latter role, with certain other modifications, the stamps were able, by 1946, to handle an average of 17 tons of ore every 24 hours. The newer mines, however, did not install any new stamp batteries, but used only ball and tube mills.

Description of operation of a stamp-mill:

In a stamp mill, the ore is fed from a bin down an inclined steel chute on to a mechanical feeder which controls the rate of feed into a chute at the back of the mortar box. The actual crushing is accomplished in the cast-iron mortar box, which is lined with removable manganese steel or white iron liners and equipped with five steel dies resting on the bottom of the box.

The dies, on which the crushing is performed, are made of steel and are cylindrical in shape, with a diameter of 9 to 10 in. The average life of these dies was about 75 days.

The stamp - the gravity drop of which delivers the blow to crush the ore on the die - consists of a stem, a head, a shoe and a tappet.

The stem, to which the other components are attached by means of wedges and gibs, is from 13 to 18 ft in length.

The head, which is the connecting link between the shoe and the stem, is between 20 and 42 in. long.

The shoe is that part of the stamp which does the actual crushing of the ore on the die. It consists of two integral parts - the shank, which fits into the socket of the head and the shoe proper (depicted on the municipal crest). The diameter is 8 to 9 in. and the length from 15 to 18 in. Its average life is about 55 to 60 days and it is discarded when worn down to about 1 in.

(During the 1914/18 war, battery spares were difficult to obtain by import from overseas and through the aegis of the Chamber of Mines, a factory was erected on the outskirts of Johannesburg to manufacture shoes and dies.)

Clamped around the stem is a tappet, which rides on the camshaft and converts the rotary motion of the cam into the required vertical motion of the stamp.

The battery in the photograph has five stamps and the cams are so adjusted that each stamp falls in a pre-determined order - much the same as the pistons in a motor car. No two adjacent stamps fall in succession and when one stamp is falling, its neighbour should be rising. The most generally used order of drop is 1-3-5-2-4. This gives the best distribution of pulp on the dies and prevents clogging.

18th February, 1970.

/MC

STAD
JOHANNESBURG



CITY OF
JOHANNESBURG

AFRICANA MUSEUM

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TELEPHONE 836-3787

SPREK ASSEBLIEF/PLEASE ASK FOR

Miss A.H. Smith

20th February, 1970

THE MAYOR'S SECRETARY

MISS PRICE ON THE MAYOR'S CHAIN

My remarks are enclosed on a separate sheet and will, I hope, meet with the Mayor's approval. Mrs. D. MacDonald Rouse's brooch has been taken by Mr. Higgins and the prints should reach your office soon. I am including Mrs. Chandler's fingernail sketches and I hope they will be what is required as noted by Miss Price on the enclosed sheet which accompanies the text you kindly lent me. I shall be pleased to help if I am still required.

Amel Smith
DIRECTOR

Encl.

AHS/BM

Remarks

- p.1 Para 2 C.J. Joubert was equivalent to the Minister of Mines,
but not so called. Head of the Mines is used by J. & E.L. Gray.
Payable gold, p.156.
- Para 3 Minister? See above.
- p.5 Para 2 J. Evans and J. Emrys Evans. I should chose one.
- p.5 Curtis planned the local government which partially exists today.
(He did not think of the arrangement introduced in 1961).
- p.5 1.3 from foot. The Sir came later.
- p.6 1.8 from top. Ditto.
- p.9 Para 2 1.4. Space for name was on back.
- p.10 1.4. I think the number of escutcheons should be given.
- p.11 Para 2 1.1. I think Col. A.D. Viney, not Mr.
- p.13 ~~After para 3 I think one can say that the original grants of arms
with and without the supporters are both hanging in the
Johannesburg Room of the Africana Museum.~~
- p.15 Add please
- p.17 1st para last line say either "chains" or add "and Mayoress'" to "chains"
(not chain).
- p.19 Add "Mrs. MacDonald Rouseowns a brooch which she inherited from
her mother, Mrs. Sims. Mrs. Sims was Mayoress to her brother
the bachelor mayor, the later Sir Harry Graumann. The brooch
was given to Mrs. Sims and today is, as far as is known, the
only surviving example of the type of design on the escutcheons
of the original Mayoral chain used in Johannesburg."
- p.23 Original names should indicate the time of a man's titles when he
appears as the Mayor for a period.
- No p.22?
- p.24 How many links left?

MAYORAL CHAIN:

67 - 67A Reports that the links of the old chain are badly worn, and that the badge has the old Coat of Arms, and no room for further shields. Town Clerk instructed to obtain quotations for repairing existing chain and also for the new Coat of Arms.

72: Town Clerk to City Engineer - design agreed upon as shown in plans produced by Mr. Cawse. Accepted.

Memo at back of File:

Minutes of General Purposes Committee 16.1.40 - Mayoral chain - Cllr. Corlett made suggestions regarding the change of the chain and that new medallions should contain new Coat of Arms.

97: Envelope contains design for new chain for Deputy Mayor and Mayor.

104 B Request by Africana Museum for old chain to be deposited with them.

113a: Extracts from Minutes of General Purposes Committee 6.10.50 confirming that order for chain had been placed with Saul Pincus.

104: Copy of contract placed with Saul Pincus for new chains for Mayoress, Deputy Mayoress and Deputy Mayor.

113: Letter from City Engineer to Town Clerk about claim by a Mr. Helfer for £50: for supplying of the specifications for the new mayoral chain.

116: Further correspondence from Helfer.

123: Letter to the Mayor of Salisbury from the Mayor's Secretary regarding the presentation of badges to ex Mayors. It is noted that this started in 1930.

126: Correspondence City Engineer to Town Clerk regarding Mayor's chain and Helfer's account. States that the sketch designs were prepared by Mr. Gourley, a deaf Architect in the Council's employ. Specifications of chains are attached.

131: Letter of demand from Helfer.

133: Repudiation of Helfer's claim. While the contract was placed with Saul Pincus (Pty) Limited, he sub-contracted work to Sidelsky.

It appears that the Deputy Mayor and Deputy Mayoress first wore the chain in 1952 to coincide with the making of the new Mayoral chain.

JOHANNESBURG:

March 2, 1970.

21/5

43
2/7/71

MANAGEMENT COMMITTEE. (6,5,70)

TOWN CLERK.

MAYORAL LINKS WITH THE PAST:
JOHANNESBURG'S GOLDEN CHAIN.

The immediate past Mayor, Councillor P.R.B. Lewis, during his term of office realised the benefit which factual information on mayoral links with the past would have for students, other councils and interested members of the public. He consequently arranged for information on the Golden Mayoral Chain to be collated and recorded in readable form. Authority is now required for booklets to be prepared departmentally and made available on request.

* The draft copy of the booklet is laid on the table.

IT IS RECOMMENDED:

That a booklet entitled "Mayoral Links with the Past, Johannesburg's Golden Chain" be duplicated departmentally and be made available to other local authorities, students and interested persons free of charge.

(VOTE : 32/2/3480)

(232/5)
(c/c 188/70)

ITEM INCLUDED IN AGENDA
OF MANAGEMENT.....
COMMITTEE : MEETING ON
..... 6, 5 19.70.....

8th May 1970.

CITY LIBRARIAN.

Dear Miss Smith,

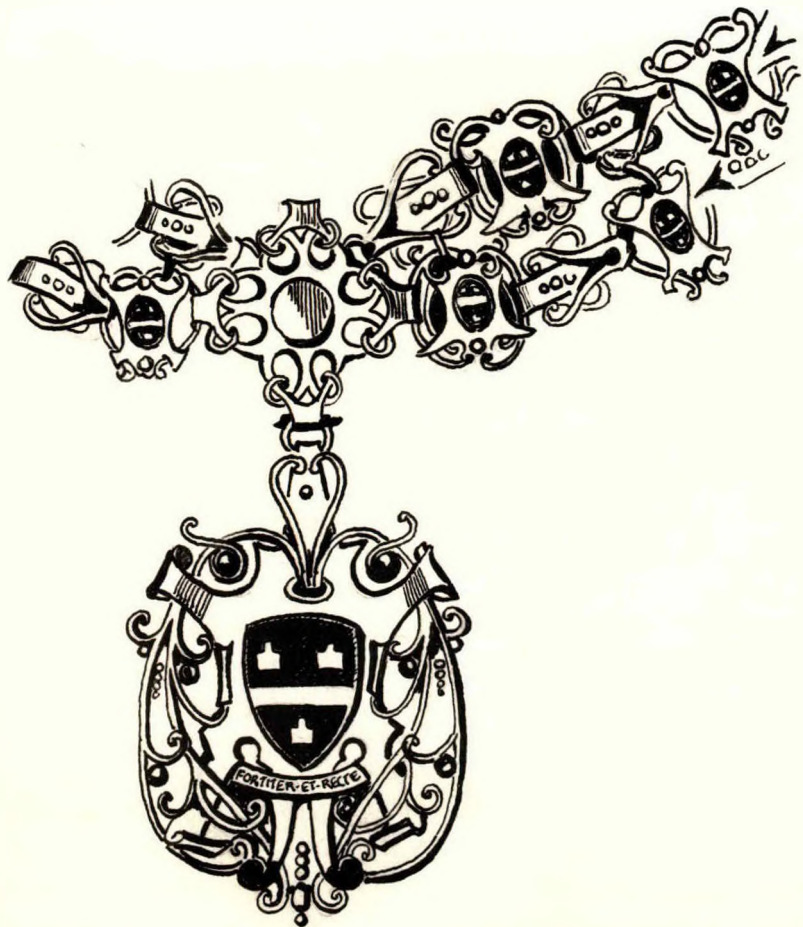
STORY OF THE MAYOR'S CHAIN.

Permission has now been given by the Management Committee for the printing of the above story.

Olga Price has been shown the drawings by your artists and asks that another drawing be done in place of the attached one which would reflect Johannesburg's present skyline, as depicted in the enclosed Week-end Magazine of the 11th October.

Yours sincerely,

PATRICK LEWIS.



The double claim

LIST OF PHOTOGRAPHS TO BE PUBLISHED

On Cover : Present Mayoral Chain in Colour

Page 1 : *Contents*
Page One ② : Photograph of Immediate Past Mayor *Jaung Foreword*
③ *Foreword*

Other Photographs to be fitted in at suitable places :-

Harry Graumann, *Page 3*
Old Double Chain, *6*
Deputy Mayor's Chain, *Page 8*
Deputy Mayoress' Chain, *Page 8*
Past Mayor's Badge, (Old and New), *Page 9*
Past Mayoress' Badge, (Old and New), *Page 9*
Link from old chain as brooch, *Page 10*

Mrs. De Wet. 2.20

GENUINE WATERMARK
NEW ERA BOND

GENUINE

NEW ERA BOND

GENUINE WATERMARK

NEW ERA BOND

More medallions were added, making 33 in all, and in order to shorten the length of the chain it was refashioned into two rows of medallions. The time came when all the medallions were inscribed with the names of Mayors, so for many years Mayors wore the chain without having their names inscribed on a medallion.

The chain was frequently needing repair and in 1950 it was decided to have a new chain designed which would incorporate the city's new Coat of Arms. The new chain was designed, the Chamber of Mines donated the gold and the new chain was first worn in 1952.

The old chain was placed in the Africana Museum from where it was stolen and only parts of the old chain were recovered.

At a recent meeting of the Management Committee it was decided to print the story of the Mayoral chain and should readers wish a copy of this document, they are requested to contact the Public Relations Officer.

CITY OF JOHANNESBURG
STAD JOHANNESBURG

Memorandum

From MANAGEMENT COMMITTEE
Van BESTUURSKOMITEE

To

Aan

Graumann.

Mayor's present chain on book

Photo of old Double Chain

Deputy Mayor's Chain

Mayor's Chain

Past Mayor's Badge ^{old} new

Past Mayor's Badge old

..... new

Introduction Photo of P. L. L.

link from old chain (as book)

1897 - 1900 J,Z. de Villiers, Esq., Burgomaster,
 1901 - 1902 W.A.J. O'Meara, Chairman of Council and
 Acting Burgomaster,
 1902 - 1903 Wm. St. John Carr, Chairman of Council and
 Acting Burgomaster,

MAYORS OF JOHANNESBURG

1903 - 1904 Wm. St. John Carr,
 1904 - 1905 G.H. Goch, Esq.,
 1905 - 1906 J,W. Quinn, Esq., M.L.A.,
 1906 - 1907 W.K. Tucker, C,M,G,,
 1907 - 1908 J. Thompson, Esq.,
 1908 - 1909 C. Chudleigh, Esq.,
 1909 - 1910 H, Graumann, Esq.,
 1910 - 1911 H,J. Hofmeyr, Esq.,
 1911 - 1912 J.D. Ellis, Esq.,
 1912 - 1913 W.R. Boustred, Esq.,
 1913 - 1914 N. Anstey, Esq.,
 1914 - 1915 N. Anstey, Esq.,
 1915 - 1916 J,W. O'Hara, Esq., O.B.E., J.P.,
 1916 - 1917 J,W. O'Hara, Esq., O.B.E., J.P.,
 1917 - 1918 T.F. Allen, Esq., O.B.E.,
 1918 - 1919 T,F. Allen Esq., O,B,E.,
 1919 - 1920 G.B. Steer, Esq.,
 1920 - 1921 J, Christie, Esq., M.L.A.
 1921 - 1922 S. Hancock, Esq.,
 1922 - 1923 L, Forsyth Allan, Esq.,
 1923 - 1924 M,J, Harris, Esq.,
 1924 - 1925 C, Walters, Esq.,
 1925 - 1926 E.O. Leake, Esq.,
 1926 - 1927 Alf, Law Palmer, Esq.,
 1927 - 1928 W.H. Port, Esq.,
 1928 - 1929 W. Fearnhead, Esq.,
 1929 - 1930 D. Anderson, Esq.,
 1930 - 1931 Geo, W, Nelson, Esq., J,P.,
 1931 - 1932 D,F, Corlett, Esq.,

1932 - 1933 B.C. Vickers, Esq., M.P.C.,
1933 - 1934 D. Penry Roberts, Esq.,
1934 - 1935 Maurice Freeman, Esq.,
1935 - 1936 Maldwyn Edmund, Esq., J.P., M.P.C.,
1936 - 1937 Donald W. Mackay, Esq.,
1937 - 1938 J.S. Fotheringham, Esq.,
1938 - 1939 J.J. Page Esq.,
1939 - 1940 T.A.M. Huddle Esq., J.P.,
1940 - 1941 T.P. Gray, Esq., M.P.C.,
1941 - 1942 A.R. Thorburn, Esq.,
1942 - 1943 L. Leveson, Esq.,
1943 - 1944 A.S. Holland, Esq.,
1944 - 1945 A. Immink, Esq., J.P.,
1945 - 1946 Mrs. Jessie McPherson,
1946 - 1947 Jas. Gray, Esq., M.P.C.,
1947 - 1948 G.B. Gordon, Esq.,
1948 - 1949 S.P. Lee, Esq.,
1949 - 1950 J. Mincer, Esq.,
1950 - 1951 C.F. Beckett, Esq., M.P.C.,
1951 - 1952 I.E.B. Attwell, Esq., F.R.S.A.,
1952 - 1953 H. Miller, Esq.,
1953 - 1954 C.J.H. Patmore, Esq., M.P.C.,
1954 - 1955 G.J. Beckett, Esq.,
1955 - 1956 Leslie Hurd, Esq., J.P.,
1956 - 1957 Max Goodman, Esq.,
1957 - 1958 T. Glyn Morris, Esq.,
1958 - 1959 I. Maltz, Esq.,
1959 - 1960 Alec Gorshel, Esq., M.P.C.,
1960 - 1961 D.J. Marais, Esq.,
1961 - 1962 D.J. Marais, Esq.,
1962 - 1963 Keith G. Flemming, Esq.,
1963 - 1964 J.F. Oberholzer, Esq., M.P.C.,
1964 - 1965 P.M. Roos, Esq.,
1965 - 1966 Aleck Jaffe, Esq.,
1966 - 1967 B.D. Eagar, Esq.,
1967 - 1968 C.J. Ross-Spencer, Esq.,
1968 - 1969 I. Schlapobersky, Esq.,
1969 - 1970 P.R.B. Lewis, Esq.,
1970 - 1971 S. Moss, Esq.

City of Johannesburg

196

Memorandum

From Office of the Mayor

To Information from Reference Library

Neighborhoods.

Harry Graumann 1922.

William St John Carr. 1905.

Collection Number: A1132

Collection Name: Patrick LEWIS Papers, 1949-1987

PUBLISHER:

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Location: Johannesburg

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