

THE ENGINEERING ASSOCIATION

OF

NEW SOUTH WALES.

Established 1870.

Incorporated 1884.

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SESSION 1909-10.

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PART I.

MINUTES OF PROCEEDINGS

ANNUAL GENERAL MEETING, 14th OCTOBER, 1909.

Present:—The President, MR. JAMES SHIRRA, in the chair, and about 70 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

BALLOT FOR NEW MEMBERS.

Member:—MR. ERIC FRANCIS BOULT, Engineer, 28 Post Office Chambers, Pitt Street, Sydney, having been duly nominated and approved by Council, was balloted for and unanimously elected.

ANNUAL REPORT OF COUNCIL AND BALANCE-SHEET.

On the motion of the President, Mr. James Shirra, seconded by Mr. H. B. Howe, the Annual Report of Council and Balance Sheet were adopted.

ANNOUNCEMENT OF RESULT OF BALLOT FOR ELECTION OF OFFICERS AND COUNCIL FOR THE ENSUING SESSION.

The President, Mr. James Shirra, announced the result of this ballot as follows:—

PRESIDENT:

MR. EDWARD J. ERSKINE.

VICE-PRESIDENTS:

MR. W. H. GERMAN, MR. JAMES MACARTNEY.

HONORARY TREASURER :

MR. JOHN SANDS.

HONORARY SECRETARY AND EDITOR :

MR. HENRY V. AHRBECKER.

MEMBERS OF COUNCIL :

MR. THOMAS FERGUSON, MR. C. J. HOLROYDE,
MR. THOMAS IRONS, MR. G. A. JULIUS, MR.
JAMES KIDD, MR. R. R. KING, MR. WALTER
REEKS, MR. ROBERT STEEL, MR. RUSSELL
SINCLAIR.

The retiring President, Mr. James Shirra, said:—I therefore have great pleasure in asking my successor, Mr. Erskine, to take the chair. I hope he will find the same cordial spirit and harmony among the members as I have experienced during my two years' of presidency.

Mr. Shirra then vacated the chair in favor of Mr. Erskine.

The new President, Mr. Edward J. Erskine, on taking the chair, said:—I thank you very much for the honor you have done me in electing me as your President. I have sat on the Council now for some years, and one cannot do that without being impressed with the importance of this Association, which must grow as the Engineering of the country grows.

Mr. Russell Sinclair proposed that a very hearty vote of thanks be tendered to Mr. Shirra for the very able manner in which he had occupied the chair during the past two years. The motion was put to the meeting and carried by acclamation.

DISCUSSION ON MR. ERIC F. BOULT'S PAPER ON "THE COMMERCIAL MOTOR VEHICLE."

The discussion on this paper was opened by Mr. A. Edwards (communicated), and read by the President (Mr. Edward J. Erskine), followed by Messrs. R. R. King, A. J. Arnot, James Shirra, Russell Sinclair, A. D. Nelson, James Macartney, W. J. Hanna, G. W. F. Findlay, P. J. Taylor, R. J. Vincent, Walter Reeks, Herb. W. Filmer, and the President (Edward J. Erskine).

Mr. Boulton replied to the various points raised
The meeting then terminated.

EDWARD J. ERSKINE, President

10TH MARCH, 1910.

Present:—The President, Mr. EDW. J. ERSKINE.
in the chair, and about 60 members.

Minutes.—The minutes of the previous meeting were
read and confirmed.

BALLOT FOR NEW MEMBERS.

Member: Mr. JAMES JOHN CAUTLEY BRAND, Engi-
neer, 117 Pitt Street, Sydney.

Member: Mr. WILLIAM DONALD McCREA, Engineer,
49 York Street, Sydney.

Member: Mr. ALBERT FRANK SAUNDERS, Engineer,
Australasia Chambers, Martin Place Sydney.

Member: Mr. ALBERT PERCIVAL SMITH, Engineer,
Box 1562, G.P.O., Sydney, and 41 Queen Street, Mel-
bourne.

The above were duly nominated, approved by Council,
balloted for, and unanimously elected.

PRESIDENTIAL ADDRESS BY MR. EDWARD J. ERSKINE.

Mr. Erskine then delivered his Presidential Address,
which was of a most interesting and instructive character.
Mr. Erskine thanked the members for electing him to the
presidential chair, and made feeling reference to the loss
sustained by the Association, during the past year, by the
deaths of Messrs. Thomas Ferguson, P. Hunter, and John
Reid. In reviewing the work of the past session, Mr. Er-
skine referred to the keen interest taken by the Association
in Technical Education, and the offer by the Council and
acceptance by Mr. Norman Selfe of a life membership of
the Association in connection with same. Mr. Erskine
also referred to the question of the apprentice, the profes-
sional status of engineers, labour saving devices, and many
other important matters.

Mr. James Shirra proposed a very hearty vote of thanks to Mr. Erskine for his very able address, which was seconded by Mr. Hector Kidd, and carried by acclamation.

The meeting then terminated.

EDWARD J. ERSKINE, President.

14TH APRIL, 1910.

Present:—The President, Mr. EDWARD J. ERSKINE, in the chair, and about 60 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

BALLOT FOR NEW MEMBERS.

Member: Mr. JOHN HENRY BUTTERS, Engineer, Messrs. Siemens Bros., 16 O'Connell Street, Sydney.

Member: Mr. HENRY CODD, Electrical Engineer, Clarence Siding, Blue Mountains.

Member: Mr. ALFRED HENRY HASEMER, Works Manager, c/o Messrs. Poole and Steel, Stephen Street, Balmain.

Student: Mr. THOMAS NORMAN ROWE, Engineering Apprentice, 110 Buckingham Street, Sydney.

Having been duly nominated and approved by Council, were balloted for and unanimously elected.

PAPER ON "PNEUMATIC TOOLS," BY MR. ARTHUR P. SMITH.

Paper read, diagrams and exhibits explained by Mr. Smith.

Discussion opened by Mr. Hector Kidd, followed by Messrs. James, Shirra, G. A. Julius, R. J. Vincent, and the President, Mr. Erskine.

Mr. Smith replied to the various points raised.

On the motion of Mr. R. R. Ferrier, seconded by Mr. R. J. Vincent, a very hearty vote of thanks was accorded Mr. Smith for his valuable paper.

The meeting then terminated.

EDWARD J. ERSKINE, President.

12TH MAY, 1910.

Present:—The President, Mr. EDWARD J. ERSKINE, in the chair, and about 60 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

DEATH OF HIS LATE MAJESTY KING EDWARD VII.

On the motion of the President, Mr. Erskine, it was resolved that the members of the Engineering Association of New South Wales desire most respectfully to convey, through His Excellency the State Governor, their sincere regret at the news of the death of His Late Majesty King Edward VII., and to express their deepest sympathy with the members of the Royal Family on their bereavement, and further to assert their unaltered loyalty to the Throne, and to the present King, His Majesty George V., and that this resolution be forwarded to His Excellency the State Governor, under the seal of the Association.

The motion was carried in silence, the members standing.

DEATH OF MR. JOHN LAING.

The President very feelingly referred to the death of the late Mr. John Laing, and pointed out that he was one of the founders of the Association in 1870, and for a great number of years took the keenest interest in the welfare of the Association. He was largely connected with the beginning of Technical Education in this country, and his loss is a very serious one to the community.

PAPER ON "NOTES UPON MOLASSES TRANSPORT" BY MR. W. H. GERMAN, ILLUSTRATED WITH LANTERN SLIDES.

Paper read, and slides and diagrams explained by Mr. German.

The discussion was opened by Mr. James Shirra, who proposed that a very hearty vote of thanks be accorded Mr. German for his valuable paper, followed by Mr. James Macartney, who seconded the vote of thanks, followed by Messrs. W. Hillhouse, Hector Kidd, and R. J. Vincent.

The President said: Before conveying the vote of thanks to Mr. German, I would like to combine the reso-

lution which I will read. We are indebted to the Colonial Sugar Refining Co. every Session for 3 or 4 papers, which are valuable. I think it is time we recognised, in some way, our indebtedness to the Colonial Sugar Refining Co. I would, therefore, like to combine with the resolution just moved, the following:—

“That this Association place on record its appreciation of the kindness shown by the General Manager of the Colonial Sugar Refining Co., Limited, in having so frequently permitted his officers to place before the Association particulars and details in connection with the engineering works of the Company.”

The motion was carried by acclamation.

Mr. German thanked the members, on behalf of the General Manager, Mr. Knox, and himself, and replied to the various points raised.

The meeting then terminated.

J. MACARTNEY, Vice-President.

9TH JUNE, 1910.

Present:—Mr. JAMES MACARTNEY, Vice-President, in the chair, and about 70 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

CORRESPONDENCE.

Acknowledgment of letter forwarded to the State Governor, regarding the death of His Majesty King Edward, VII.—

“ State Government House, Sydney
21st May, 1910.

The President,
Engineering Association of N.S.W.,
5 Elizabeth-street, Sydney.

Dear Sir,—

I am directed by His Excellency, the Governor, to acknowledge the receipt of your letter, of the 16th instant, and to ask you to be so good as to convey to the Members of your Association an expression of His Excellency's sincere thanks for the resolution of sympathy and loyalty, which His Excellency will, at the earliest opportunity, transmit to the Secretary of State for the Colonies.

I am, yours faithfully,

R. VERNEY,
Captain, Private Secretary.”

Letter from Miss N. Laing, thanking the members of the Association for their kind expressions of sympathy in connection with the death of her father, the late Mr. John Laing.

Letter from Mr. Edward W. Knox, General Manager of the Colonial Sugar Refining Co., Ltd., dated 17th May, 1910, acknowledging receipt of copy of resolution passed at the last General Meeting.

BALLOT FOR NEW MEMBERS.

Student: Mr. CECIL ROY BURTON, Engineering Apprentice, Colonial Sugar Refining Co., Ltd., Pyrmont.

Student: Mr. GLADSTONE PAUCH, Engineering Apprentice, Colonial Sugar Refining Co., Ltd., Pyrmont.

Having been duly nominated and approved by Council, were balloted for and unanimously elected.

PAPER ON "ROTARY ENGINES," ILLUSTRATED WITH LANTERN SLIDES, BY MR. R. J. VINCENT.

Paper read and diagrams explained by Mr. R. J. Vincent.

On the motion of Mr. James Shirra, seconded by Mr. Walter Reeks, a very hearty vote of thanks was accorded Mr. Vincent for his interesting paper.

Mr. Vincent replied.

The meeting then terminated.

J. MACARTNEY, Vice-President.

14TH JULY, 1910.

Present:—Mr. JAMES MACARTNEY, Vice-President in the chair, and about 60 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

BALLOT FOR NEW MEMBERS.

Member: Mr. WILLIAM ROBERT LITTLE, Engineer, Mort's Dock and Engineering Co., Ltd., Balmain.

Member: Mr. WALTER RANDOLPH WRIGHT, Engineer, Colonial Sugar Refining Co., Ltd., Pyrmont.

Student: Mr. ERIC SINCLAIR DAVIDSON, Engineering Apprentice, Adelaide Steamship Co., Ltd., Balmain.

Student: Mr. WILLIAM JOHN LOCKHART, Draftsman, Cairns, Queensland.

Having been duly nominated and approved by Council, were balloted for and unanimously elected.

PAPER ON "GROWTH OF ALGAE IN RESERVOIRS AND HOW TO TREAT IT," BY MR. JAMES FAULKNER, WEST AUSTRALIA.

(Communicated.)

The paper was read by Mr. James Shirra.

On the motion of the Chairman (Mr. Macartney) it was resolved that the best thanks of the meeting be forwarded to Mr. Faulkner for his interesting paper.

PAPER ON "HISTORICAL AND DESCRIPTIVE NOTES ON LIGHTHOUSES," ILLUSTRATED WITH LANTERN SLIDES, BY MR. JAMES SHIRRA.

Paper read and lantern slides explained by Mr. Shirra.

On the motion of Mr. Walter Reeks, seconded by Mr. H. B. Howe, a very hearty vote of thanks was accorded Mr. Shirra for his interesting paper.

Mr. Shirra replied to the various questions.

The meeting then terminated.

W. H. GERMAN, Vice-President.

11TH AUGUST, 1910.

Present:—Mr. W. H. GERMAN, Vice-President, in the chair, and about 100 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

BALLOT FOR NEW MEMBERS.

Member: Mr. ALEXANDER JAMES GIBSON, Engineer, University of Sydney, Sydney.

Member: Mr. GEORGE HERBERT BOYCE, Civil Engineer, 58 Hunter Street, Sydney.

Member: Mr. CHARLES VYLE, Engineer, Colonial Sugar Refining Co., Ltd., Pyrmont.

Student: Mr. EDGAR HANLEY CLOSS, Engineering Draftsman, Electrical Engineers' Drawing Office, Sydney Tramways.

Student: Mr. ALEXANDER B. DAVIDSON, Engineer, Messrs. Staerker and Fischer, 40 Clarence Street, Sydney.

Student: Mr. JOSEPH KENNETH DONALDSON, Engineer, c/o Mr. G. A. Julius, Norwich Chambers, Hunter Street, Sydney.

Student: Mr. JOHN HAMILTON, Engineering Student, Engineering School, Sydney University.

Having been duly nominated, and approved by Council, were balloted for, and unanimously elected.

PAPER ON "NOTES ON THE BOILER EQUIPMENT AND WORKING OF A MODERN INSTALLATION OF 20 BOILERS IN A SUGAR REFINERY," ILLUSTRATED WITH LANTERN SLIDES, BY MR. JAMES KIDD.

Paper read and lantern slides explained by Mr. Kidd.

The discussion was opened by the Chairman, Mr. W. H. German, who called on some gentleman to move a vote of thanks, followed by Mr. Walter Reeks, who proposed a very hearty vote of thanks to Mr. Kidd for his valuable paper; Mr. R. J. Vincent, who seconded the vote of thanks, and Messrs. R. R. Ferrier, Albert G. McDonald, G. N. Tregarthen, Norman Selfe, Forbes Mackay, and James Shirra.

The Chairman then put the motion, which was carried by acclamation.

Mr. Kidd replied to the various questions raised.

The meeting then terminated.

EDWARD J. ERSKINE, President.

8TH SEPTEMBER, 1910.

Present:—The President, Mr. EDWARD J. ERSKINE, in the chair, and about 90 members.

Minutes.—The minutes of the previous meeting were read and confirmed.

AMENDMENT, RULES AND BYLAWS.

Section II., Rule 6, to be amended to read:—Student Associates shall be (a) students of not less than two years' standing, who shall have attained the age of twenty-four

years; (b) persons between the age of twenty-four and thirty, who through insufficient practical experience are not eligible as full members. The Council may, through the President, at any time, call upon such Student Associate to show cause why he does not present himself for full membership, should it consider him eligible for such; Student Associates shall have the same right and privileges as Students above-mentioned.

It was proposed by the President, Mr. Edward J. Erskine, that Rule 6, in Section II., of the Rules and By-Laws, be amended as read, which was seconded by Mr. G. A. Julius, put to the meeting and carried unanimously.

APPOINTMENT OF AUDITORS TO AUDIT THE ACCOUNTS FOR THE SESSION ENDING 30TH SEPTEMBER, 1910.

On the motion of Mr. Walter Reeks, seconded by Mr. James Shirra, Messrs. George Bohler and Henry Shaw were duly appointed auditors to audit the accounts for the Session ending 30th September, 1910.

APPOINTMENT OF SCRUTINEERS FOR BALLOT OF OFFICERS AND COUNCIL FOR THE ENSUING SESSION.

On the motion of Mr. James Kidd, seconded by Mr. R. Steel, Messrs. A. W. Price and H. Pasquill were duly appointed scrutineers for Ballot of Officers and Council for the ensuing Session.

PAPER ON "GAS ENGINES AND THE DETERMINATION OF THEIR COMMERCIAL EFFICIENCY," ILLUSTRATED WITH LANTERN SLIDES, BY MR. G. A. JULIUS, B.Sc., M.E.

Paper read and slides explained by Mr. Julius.

On the motion of Mr. P. Paterson, seconded by Mr. James Shirra, a very hearty vote of thanks was accorded Mr. Julius for his valuable and interesting paper.

The motion was put to the meeting and carried by acclamation.

Mr. Julius having replied, the meeting terminated.

EDWARD J. ERSKINE, President.