

THE ENGINEERING ASSOCIATION

OF

NEW SOUTH WALES.

(Established, 1870.

Incorporated, 1884.)

SESSION 1893-94.

PART I.

MINUTES OF PROCEEDINGS,

ANNUAL GENERAL MEETING,

9th OCTOBER, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected:—

MEMBERS:

R. E. F. BAUM

CHAS. E. H. J. LUDOWICI.

*ANNUAL REPORT AND BALANCE SHEET.—On the motion of Mr. H. Broderick, seconded by Mr. H. H. Kingsbury, the Report and Balance Sheet were unanimously adopted.

ELECTION OF OFFICERS AND COUNCIL.—The President announced that the next business was the election of Officers and Council for the ensuing year, and requested the members to appoint two

* This Report and Balance Sheet was published in Vol. VIII.—Ep.

scrutineers. On the motion of Mr. H. Broderick, seconded by Mr. T. Irons, Messrs. G. Adams and T. Raw were appointed scrutineers. The ballot was then taken, and resulted in the following named gentlemen being elected to fill the various offices, viz.:—

PRESIDENT :

R. POLLOCK (*re-elected*).

VICE-PRESIDENTS :

A. D. NELSON (*re-elect d*). G. MASSEY (*re-elected*).

HON. SECRETARY AND EDITOR :

H. V. AHRBECKER (*re-elected*).

HON. TREASURER :

JOHN SANDS (*re-elected*).

COUNCIL :

W. D. CRUICKSHANK.	G. FISCHER.
L. C. AULDJO.	A. CHRISTIE.
NORMAN SELFE.	H. KIDD.

The PRESIDENT (Mr. R. Pollock), and the VICE-PRESIDENT (Mr. A. D. Nelson) returned thanks for the honor conferred upon them by the members in having re-elected them to their respective offices.

*ADJOURNED DISCUSSION ON MR. R. MORSE'S PAPER, "RAILWAY BRAKES."—After a few remarks from Mr. G. Adams, who regretted, on account of his having been away, his inability to discuss the subject. Mr. Morse replied to the various criticisms on his †Paper.

"REFRIGERATING AND ICE-MAKING MACHINERY, WITH A DESCRIPTION OF THE LINDE SYSTEM," by Mr. R. Sinclair. The President then called on Mr. Sinclair to read his paper, and in concluding he stated that Messrs. J. H. Geddes and Co. had

*This discussion was published in Vol. VIII.—Ed.

†This Paper was published in Vol. VIII. by special request.—Ed.

invited the members to inspect their Freezing Machinery at North Sydney, on Saturday, the 14th October; also that the Mayor of Sydney had arranged for members to inspect the Refrigerating Machinery at the Fish Market, Woolloomooloo, on the following Saturday. Mr. L. C. Auldjo moved, and Mr. A. D. Nelson seconded, that a hearty vote of thanks be accorded Mr. Sinclair for his valuable and interesting paper, and that the discussion be adjourned for a fortnight. The motion was carried by acclamation.

The meeting then terminated.

26TH OCTOBER, 1893.

MR. A. D. NELSON, VICE-PRESIDENT, IN THE CHAIR.

COMMUNICATION FROM THE COUNCIL.—The President announced that Mr. James Fitzmaurice had been re-elected as Secretary for the ensuing year, and that Mr. A. Christie had been appointed Honorary Librarian.

*DISCUSSION ON MR. SINCLAIR'S PAPER on "Refrigeration and Ice Making Machinery."—Mr. L. G. Auldjo opened the discussion and dealt with the paper at considerable length. he was followed by Messrs. McAdam and Cyle (visitors), Messrs. F. A. Franklin, W. D. Cruickshank and J. Wildridge, the latter named gentleman giving some very interesting statistics concerning the sheep and cattle trade of New Zealand, Argentine Republic and the Colonies. Mr. Sinclair having replied to the various criticisms on his paper wished to express his regret that the discussion on this important subject had not been more general. He hoped that some other member would come forward with a paper on Refrigerating Machinery, and he would criticise it to the best of his ability. The Vice President (Mr. A. D. Nelson) in closing the meeting said that the Association felt very grateful to Mr. Sinclair for his very

*This discussion was published in Vol. VIII.—ED.

interesting paper and he hoped that the suggestion thrown out by that gentleman for others to come forward with papers on this subject would be taken up by those members who were directly interested in Refrigerating Machinery. The meeting then terminated.

8TH MARCH, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected:—

MEMBER:

W. J. NAPIER.

ASSOCIATE:

R. W. W. McCOY.

PRESIDENTIAL ADDRESS.—The President (Mr. R. Pollock) then read his interesting address in which he dealt at length with the question of refrigeration and the export trade connected therewith. He considered it the duty of this Association and kindred institutions to see that in the race this Colony was not left behind. Reference was made to the advancement of electrical and general engineering in the Colonies and elsewhere, special mention being made to the inauguration of the Eskbank Ironworks in January last.

In concluding his address the President urged members to come forward and assist the Council by reading and discussing papers before the Association.

On the motion of Mr. A. D. Nelson, seconded by Mr. W. D. Cruickshank a hearty vote of thanks was accorded Mr. Pollock for his address.

The meeting then terminated.

12TH APRIL, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

PAPER—"NOTES ON HYDRAULIC POWER SUPPLY," by Mr. T. Dickinson. The President announced that owing to the illness of Mr. Dickinson, it would be necessary to postpone the reading of this paper.

EXCURSION TO NORTH SYDNEY POWER HOUSE.—The President reminded members of the proposed visit to the Power House next Saturday, and he trusted that a large number of members would avail themselves of the invitation of the Railway Commissioners. The meeting then terminated.

10TH MAY, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

PAPER ON "SOME IMPROVEMENTS IN TREATING MINERALS FOR THE WET EXTRACTION OF GOLD AND SILVER, by Dr. John Storer. The President called on Dr. Storer to read his paper. At its conclusion, on the motion of Mr. Norman Selfe, seconded by Mr. H. Brodwick, a hearty vote of thanks was accorded Dr. Storer for his valuable paper. The author in replying stated that the working plant was ready for the inspection of members of the Association at any time that would be convenient to them. The invitation was accepted for Saturday afternoon, the 19th inst.

PAPER, "NOTES ON HYDRAULIC POWER SUPPLY," by Mr. T. Dickinson.—Mr. Dickinson then read his paper, and on its conclusion Mr. J. Poole, Chairman of Directors of the Hydraulic Power Supply, intimated that members of the Association would be conducted over the works at any time that would suit their convenience. On the motion of Mr. A. D. Nelson, seconded by Mr. G. Fischer, the author was accorded a hearty vote of thanks for his interesting contribution. Mr.

Dickinson having replied, the President announced that the discussion on both papers would take place at the next general meeting.

The meeting then terminated.

14TH JUNE, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

CORRESPONDENCE.—A letter was received from the Electric Club of New South Wales, drawing attention to the fact that a students' section had been initiated by the Club, and requesting the co-operation of the Association. The President stated that a copy of the rules relating to the students' section would be forwarded to the members of the Association with the monthly circular.

INSPECTION.—The President announced that members were invited to visit the Electric and Hydraulic Lift Installation at Messrs. Anthony Hordern and Sons, on Saturday, July 7th.

DISCUSSION ON DR. JOHN STORER'S PAPER ON "SOME IMPROVEMENTS IN TREATING MINERALS FOR THE WET EXTRACTION OF GOLD AND SILVER."—The discussion was opened by Mr. Norman Selfe, and continued by Messrs. A. D. Nelson, H. Kidd, A. Christie, W. D. Cruickshank, and the President, after which Dr. Storer replied to the various comments on his paper.

DISCUSSION ON MR. T. DICKINSON'S PAPER, "NOTES ON HYDRAULIC POWER SUPPLY."—The President then called on Mr. A. D. Nelson to open the discussion. Mr. Nelson, in doing so, expressed regret that the author had not gone more deeply into the subject of cost and the application of the system to the driving of motors and other purposes. Messrs. Norman Selfe, Houghton (visitor), and H. Kidd also discussed the paper, after which it was decided, owing to the lateness of the hour, to adjourn the further discussion until the next general meeting.

The meeting then terminated.

12TH JULY, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected:—

MEMBER:

BENJAMIN RORKE.

STUDENT:

E. F. BOND.

DISCUSSION ON MR. T. DICKINSON'S PAPER, "NOTES ON HYDRAULIC POWER SUPPLY."—The President explained that as Mr. Dickinson could not attend the meeting that evening it would be desirable to postpone the further discussion on this paper until the next general meeting.

PAPER, "BRICKS AND BRICKMAKING IN AND AROUND SYDNEY," by Mr. James Nangle.—The President then called on Mr. Nangle to read his paper; at its conclusion, on the motion of Mr. A. M. Howarth, seconded by Mr. G. Fischer, the author was accorded a vote of thanks, and the discussion adjourned to the next monthly meeting.

PROCEEDINGS, VOL. VIII.—The President announced that Volume VIII. was ready for distribution to the members.

The meeting then terminated.

9TH AUGUST, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

The following candidate was balloted for and duly elected:—

ASSOCIATE:

HENRY WHITE.

DISCUSSION ON MR. NANGLE'S PAPER, "BRICKS AND BRICKMAKING IN AND AROUND SYDNEY."—The discussion was opened by Mr. G. Fischer, and continued by Mr. W. D. Cruickshank and the President, after which Mr. Nangle replied to the various comments on his paper.

PAPER, "DOUBLE-ENDED SCREW FERRY STEAMERS," by Mr. Walter Reeks.—Mr. Reeks then read his very interesting paper, and at its conclusion was accorded a hearty vote of thanks on the motion of Mr. W. D. Cruickshank, seconded by Mr. A. Christie, for his valuable contribution. The discussion was adjourned to the next monthly meeting.

The meeting then terminated.

13TH SEPTEMBER, 1894.

MR. R. POLLOCK, PRESIDENT, in the Chair.

APPOINTMENT OF AUDITORS.—On the motion of Mr. A. M. Howarth, seconded by Mr. G. Boulton, Messrs. James Elder and H. J. Vale were appointed to audit the books of the Association for the past year.

DISCUSSION ON MR. T. DICKINSON'S PAPER, "NOTES ON HYDRAULIC POWER SUPPLY."—The President then called on Mr. Dickinson to reply to the discussion on his paper, and in doing so, the author answered the various questions and criticisms.

DISCUSSION ON MR. REEK'S PAPER ON "DOUBLE-ENDED SCREW FERRY STEAMERS."—This discussion was opened by Messrs W. D. Cruickshank, and continued by Messrs. A. Christie, Norman Selfe, Captains Trouton, Banks, Summerbell, Messrs. C. Halliday, Lodder, Joubert, and Kirkland, after which, as the hour was late, the President adjourned the further discussion to the next monthly meeting.

The meeting then terminated.
