

MINUTES OF PROCEEDINGS.

10TH NOVEMBER, 1887.

The PRESIDENT, MR. W. D. CRUICKSHANK, in the Chair.
The following Candidates were balloted for and duly elected:—

MEMBERS:

CHARLES McKECHNIE.

C. G. CAMERON.

WILLIAM PLATTS.

JAMES J. HAYCROFT.

STUDENT:

F. C. McNAB.

The PRESIDENT announced the election by the Council of Mr. Lawrence Hargrave as Librarian, and Mr. W. E. H. Nicolle as Secretary.

MR. WALSH'S MOTION *re* HON. CLARKE, MINISTER OF JUSTICE.—MR. WALSH moved that the Association accord the Minister of Justice a vote of thanks for his efforts and success in the passing of the Patent Act, but on being put to the meeting the resolution was negatived.

ANNUAL RE-UNION.—The President stated that the date fixed by the Council for the annual re-union was the 19th instant.

ADDRESS.—The President read his Annual Address to the members, for which Dr. J. Storer moved, and Mr. Trevor Jones seconded, a vote of thanks, which was heartily accorded by the members.

PATENT THEODOLITE HEAD.—The Secretary read a communication from Mr. T. F. Weisner, describing a new Theodolite Head, in which the whole of the adjustments were much simplified, and at the same time the utmost accuracy could be attained.

8TH DECEMBER, 1887.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

THE following Candidates were balloted for and duly elected:—

MEMBERS:

A. G. A. HINDER.

THOMAS ROW.

ASSOCIATE:

ROBERT SANDS.

STUDENTS:

WILLIAM POOLE.

R. R. FERRIER.

HAWKESBURY BRIDGE.—The President announced that he had received a letter from the contractors of the Hawkesbury Bridge, inviting the members of the Association to view the work in progress, and he suggested that they avail themselves of the invitation on a Saturday about the middle of January.

CENTENNIAL CELEBRATIONS.—Mr. J. Wildridge asked the President if the Council had considered the advisability of having meetings, &c., in connection with the entertaining of members of kindred societies who might visit the colony during the celebrations.

The President, in reply, stated that no arrangements had been made, and recommended that a Special Committee be appointed to act in conjunction with the Council for this purpose.

After some discussion the following gentlemen were appointed:—Messrs. J. Wildridge, O. Blacket, J. M. Dunn, Trevor Jones, J. B. Henson, R. W. Finlayson, Norman Selfe, P. B. Walker, Hector Kidd, and Professor W. H. Warren, with power to add to their number, and to act with the Council in drawing out a programme or plan of entertainment.

PAPER.—Mr. J. B. Henson read a paper on "The Shone Hydro-Pneumatic System of Sewerage," and was supplemented by a paper read by Professor W. H. Warren. The hour being late, Mr. G. Fischer moved, and Mr. W. Shellshear seconded, a resolution that the discussion be adjourned until the next meeting.

12TH JANUARY, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

HAWKESBURY BRIDGE EXCURSION.—The President stated that although he had asked those members who intended accepting the invitation to send a notification to that effect to the Secretary, many of the members had not done so, which was to be much regretted, as the arrangements were not such as they otherwise would have been, and he hoped in the future that such omissions would not again arise.

CENTENNIAL CELEBRATIONS.—The President announced that the Committee appointed at the last meeting to draw up a programme for the Centennial celebrations had held a meeting, at which it was decided that all members of kindred societies who might visit Sydney during the holidays should be entertained and conducted through the various works of interest in and about Sydney by this Association. A circular letter had been sent to the societies in Melbourne, Adelaide, Brisbane, and New Zealand, acquainting them of the Association's intention, and extending a cordial invitation to their members. He had accepted the invitations of the Colonial Sugar Refining Company, Mort's Dock Engineering Company, and the Atlas Engineering Company, to visit their works; also the new Dock at Cockatoo Island, at the invitation of the Engineer-in-Chief.

RULING OF A SUPREME COURT JUDGE.—Mr. Morse asked the President whether he considered it advisable of this Association to take any special notice of the ruling of a Supreme Court Judge, in a case recently before the Court, in reference to the qualities and brands of Staffordshire iron.

The President, in reply, said he would like to hear the members' opinion on this subject.

After some discussion, Mr. W. Shellshear moved that the question be submitted for consideration at the next monthly meeting, which resolution, on being put to the meeting, was carried.

DISCUSSION on Mr. J. B. Henson's and Professor W. H. Warren's papers on the Shone Hydro-Pneumatic System of Sewerage.—In the absence of Mr. Fischer, the mover of the adjournment, the discussion was opened by Mr. W. Shellshear, and was followed by Messrs. Trevor Jones, O. Blacket, and Norman Selfe, who all expressed themselves in favour of the system. After some remarks from Mr. Appleby, Mr. Henson and Professor Warren replied.

HARGRAVE'S FLYING MACHINE.—The President called the members' attention to diagrams of a flying machine which had been constructed by Mr. Hargraves, and which had, at a recent trial, traversed a distance of 270 feet horizontally in calm air.

PAPER.—Mr. L. C. Auldjo read a paper on a "Fresh Water Distiller," an invention he had lately patented. Members in discussing its merits spoke very highly of its great practicability and simplicity.

9TH FEBRUARY.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

THE following candidates were balloted for and duly elected—

MEMBERS:

HENRY V. AHRBECKER.

T. H. RUDOLPH.

L. A. B. WADE.

CENTENNIAL EXCURSIONS.—Mr. Norman Selfe expressed his appreciation of the President's efforts in having carried these excursions out in such a very successful manner, and moved that a vote of thanks be given him. This motion was seconded by Mr. O'Neil, and was heartily accorded by the members. The President, in acknowledging the vote of thanks, mentioned that he felt indebted to Mr. J. M. Dunn, whose assistance had been most valuable.

HIS HONOR JUDGE OWEN'S RULING *re* TOWN HALL GIRDERS.—The President, before calling on Mr. W. Shellshear to open the discussion, gave a brief explanation of the case, and the position

of the Association in dealing with it. The following gentlemen took part in the discussion:—Messrs. G. A. Key, J. M. Dunn, Professors Kernot and Warren. Papers from Messrs. A. D. Nelson and R. Pollock, who were unable to be present, were read by Messrs. J. Richmond and H. E. Dickinson. The hour being late, Mr. G. Fischer moved, and Mr. J. P. Franki, seconded, the adjournment of the discussion until the next meeting.

8TH MARCH, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

CENTENNIAL EXCURSIONS.—The President announced that nearly the whole of the expenses incurred in carrying out these excursions had been covered by voluntary contributions.

PRIZE ESSAY.—The President stated that he had received a letter from Mr. F. Bennett, offering a prize of Twenty Guineas for the best essay descriptive of the Association's Centennial Excursions, and the conditions under which it was to be competed for were being considered by the Council, and would at an early date be submitted to the members.

HIS HONOR JUDGE OWEN'S RULING.—The President supplemented the remarks made by him at the last meeting explanatory of the position of the Association regarding this case, and the reason for taking the matter up, after which he called on Mr. G. Fischer, the mover of the adjournment, to open the discussion which was joined in by Messrs. Max Thompson, P. Diamond, H. Selve, R. Morse, and Professor Warren.

Mr. A. D. Nelson, at the President's request, then moved the following resolution:—

“That the Engineering Association of New South Wales dissents from the ruling of the Judge in Equity in the case of Stewart and Another *versus* the Municipal Council, in his interpretation of the words used to denote the quality of the iron, which are known as technical or trade terms; and further, this Association is of the opinion that assessors should be appointed in all cases where technical or trade terms are used to denote

qualities, &c., so as to assist the judge in arriving at his decision."

Mr. Wildridge seconded the resolution, which was unanimously carried.

Mr. R. Pollock then moved that a copy of the foregoing resolution be forwarded to the Minister for Justice. Mr. R. Morse seconded, and on it being put to the meeting was carried.

12TH APRIL, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

THE following candidates were balloted for and duly elected—

MEMBERS :

THOMAS BROWN.

J. H. CARDEN.

STUDENTS :

H. E. ROBINSON.

S. BROWN.

MR. F. BENNETT'S PRIZE.—The President announced that the conditions under which this prize was to be competed for would be issued by the Council at the next meeting.

PAPER.—Mr. Henry Selfe read a paper on "Our Harbour Steamers."

The hour being late, and with a view of giving members an opportunity of fully considering the various novel features contained in Mr. Selfe's design, Mr. A. D. Nelson moved, seconded by Mr. P. Hunter, that the discussion be adjourned until the next meeting, a course which was agreed to by the members.

10TH MAY, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

THE following candidates were balloted for and duly elected—

MEMBER:

JAMES FOOTE.

STUDENT:

A. H. WILKINSON.

Discussion on Mr. H. Selfe's paper on "Our Harbour Steamers." The President called on Mr. A. D. Nelson, the mover of the adjournment, to open the discussion, in which Messrs. Key, Christie, J. Wildridge, Morse, W. D. Cruickshank, and R. Pollock, joined.

Mr. Henry Selfe replied to the various points raised, and was accorded a hearty vote of thanks.

14TH JUNE, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

THE following candidates were balloted for and duly elected:—

MEMBERS:

J. O. MORLAND.

G. CLARKE.

W. M. NEWTON.

STUDENT:

J. A. WEBB.

EXCURSION.—The President announced that Messrs. Smith and Rowe had invited the Members of the Association to inspect the work they had in progress on the Illawarra Railway, and the Council had accepted this kind offer, the excursion to take place the ensuing month.

ANNUAL VOLUME.—The President gave notice that the Annual Volume of the Proceedings of the Association would be ready for distribution to members at the next meeting.

PAPER.—A paper was read by Dr. J. Storer, "On Some of the Mechanical Aspects of Metalliferous Mining in Australia," followed by a discussion in which Messrs. Trevor Jones, A. D. Nelson, and Professor Kernot joined.

12TH JULY, 1889.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

ILLAWARRA EXCURSION.—The President requested those members who intended accepting the invitation to notify same to the Secretary.

ANNUAL VOLUME.—The President announced that the second volume of the Proceedings of the Association was ready for distribution, and thanked Mr. G. Fischer for the trouble he had taken in producing such a creditable volume.

PAPER.—Mr. Hector Kidd read a paper on "A Triple-Effet Apparatus for Evaporating Sugar Solutions." After some remarks from Messrs. Van-de-Velde and Angus Mackay, the discussion of the paper was adjourned to the next meeting.

16TH AUGUST, 1888.

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

LATE MR. G. A. MORELL.—The President, in announcing the death of Mr. G. A. Morell, stated that the loss sustained thereby by the Association was very great, as this talented and energetic gentleman had been one of the first members, and had always felt a deep interest in its welfare.

SCIENTIFIC AND MECHANICAL EXHIBITION.—The President desired the members to consider the advisability of the Society holding an exhibition. Previous ones had been held at periods of three years, but it would be for them to decide what course they wished to adopt.

Mr. R. Pollock moved, and Mr. J. Wildridge seconded, the following resolution:—"That the holding of an Exhibition, as far as this Association is concerned, be deferred for a period of two years," which, on being put to the meeting, was carried.

DISCUSSION ON MR. HECTOR KIDD'S PAPER.—The adjourned discussion on Mr. Kidd's paper was opened by Mr. German, and followed by Mr. W. D. Cruickshank.

PAPER.—Mr James Thompson read a paper on "The Atlas Engineering Company's Hydraulic Pontoon Dock."

13TH SEPTEMBER, 1888

MR. W. D. CRUICKSHANK, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected :—

MEMBER:

D. C. ROBERTSON.

ASSOCIATE:

CAPTAIN SUMMERBELL.

ELECTION OF AUDITORS.—Mr. W. H. Kerle proposed, and Mr. H. Vale seconded, for election Messrs. F. B. Henson and R. W. Finlayson to act as Auditors for the year. On the motion being put to the meeting, they were unanimously elected.

DESIGNS FOR PUBLIC WORKS.—Mr. A. D. Nelson brought forward the following motion :—"That in the opinion of this Association, the Government should invite competitive designs in Australia for all public works," which was seconded by Mr. W. H. Kerle, and on being put to the meeting was carried.

Mr. Newton moved, and Mr. A. D. Nelson seconded—"That a copy of the resolution be forwarded to the Colonial Secretary," which was unanimously agreed to by the members.

PAPER.—Mr. J. B. Henson read a paper entitled, "Some Remarks on the Proposed Scheme for Western Suburbs Sewerage System." The hour being late, Mr. Smail moved, and Mr. Trevor Jones seconded, that the discussion be adjourned till the next meeting.

As the discussion on this paper took place at the first meeting of Session 1888-89, the Editors consider it desirable to publish the paper, with the discussion thereon, in Vol. IV.