

ABSTRACT OF PROCEEDINGS

OF THE

Sydney University Engineering Society.

ANNUAL GENERAL MEETING. *April 8th, 1903.*

THE Annual General Meeting was held in the Geology Lecture Theatre, under the chairmanship of Mr. J. J. C. Bradfield, M.E. (President).

Forty-three members attended.

Minutes of previous Annual Meeting were confirmed.

The Council's report for the year was read. It recorded the contributions to the journal, the attendances at Council Meetings and excursions made by the Society; and after referring to alterations made to the Constitution and By-laws, dealt exhaustively with the financial state of the Society which was reported good, there being a fairly large credit balance in hand, after paying all accounts. The membership had advanced to 179 ordinary and 10 honorary members. A scheme was proposed of forming separate funds for the annual prize for undergraduates' contributions to the journal, and for conserving the moneys received as life membership subscriptions, one annual subscription therefrom for each life member represented to be passed into current accounts. The report was adopted.

The Officers and Council for the ensuing year were then elected.

Mr. J. J. C. Bradfield, M.E., read his retiring Presidential Address in which, after referring to Society matters, he dealt chiefly with problems of Water Conservation and Irrigation and Forest Preservation, and gave a digest of the various Acts of N.S.W. Parliament concerning the question of water rights.

Mr. Bradfield welcomed and introduced Mr. J. N. C. MacTaggart, B.E., as the President elect. Mr. MacTaggart briefly returned thanks for his election.

On the motion of Mr. T. P. Strickland, B.E., Mr. Bradfield was heartily thanked for his address.

On the motion of Mr. R. W. Hawken, B.E., B.A., a cordial vote of thanks was accorded the retiring officers.

ORDINARY GENERAL MEETING. *May 13th, 1903.*

Mr. J. N. C. MacTaggart, B.E. (President) and 27 members present.

Minutes of previous meeting were read and confirmed.

Twenty-six candidates were elected to membership.

The Council gave notice of motion of amendments to Constitution, they having undertaken a complete revision thereof.

Discussion of Mr. J. M. S. Woore's paper on "Steel-Concrete Bridge Construction," printed in previous session, was opened. The Secretary read correspondence from Mr. H. H. Dare, M.E., and Messrs. Jarman, Myers, Hawken, Roberts and the President took part in the discussion.

Mr. H. H. Dare exhibited:—(1.) Photographs of a N.S.W. Suspension Bridge and (2.) Drawings of Bascule Bridge over the Murray at Darling Point. The President exhibited an ivory scale divided in Sydney into decimals of one foot, and explained that it was used in gauging the discharge from the Menangle pumps of the Sydney Water Supply.

ORDINARY GENERAL MEETING.

July 8th, 1903.

The President, Mr. J. N. C. MacTaggart, in the chair.

Minutes of previous meeting were duly signed.

The President welcomed visiting members of the Engineering Association of N.S.W.

The consideration of proposed amendments to Constitution was postponed to next meeting.

The following exhibits were laid on the table:—

- (1) An album of views of the Burdekin Bridge, Queensland, presented to the Society by Mr. C. F. V. Jackson, B.E., F.C.S., F.G.S., Assoc. M. Inst. C.E.
- (2) Copy of a paper on "Miyabara's Watertube Boiler," presented to the Society, by Mr. E. Odagiri, Engineer of the Japanese Warship "Hasidate."

Professor W. H. Warren, Wh. Sc., M. Inst. C.E., then read a paper on "Riveted Joints in Girders."

A vote of thanks proposed by Mr. J. W. Roberts, B.E., and supported by Messrs. R. W. Hawken, B.E., T. H. Houghton, M. Inst. C.E., and A. J. Gibson, Assoc. M. Inst. C.E., was accorded Professor Warren.

The following exhibits were on view:—

- (1) Views of Steel Highway Bridge over Hunter River at Luskintyre, exhibited by Mr. H. H. Dare, M.E.
- (2) A sensitive Anemometer, and a Hygrometer, by Mr. G. H. Knibbs, F.R.A.S.
- (3) Petrological Lathe, constructed by Mr. Cooke of Physics Laboratory, shewn by Mr. H. S. Mort, B.Sc.

GENERAL MEETING.

August 12th, 1903.

President (Mr. J. N. C. MacTaggart, B.E.), and twenty-two members present.

Minutes of previous meeting were read and confirmed.

The amendments to Constitution and By-laws proposed by the Council were considered and various alterations made, and the matter adjourned.

Mr. J. Davis, M. Inst. C.E., was nominated for honorary membership by Mr. J. J. C. Bradfield, M.E., Assoc. M. Inst. C.E.

SPECIAL GENERAL MEETING.

August 19th, 1903.

Mr. J. N. C. MacTaggart, B.E. (President), occupied the chair. There was a large attendance of ladies and gentlemen present by invitation.

Mr. R. T. McKay, Assistant Engineer, W.S. and S. Branch, D. P. Works and Secretary to the late Royal Commission on the Murray Waters, delivered a lecture on the Murray River: Irrigation and Navigation. The lecture was illustrated by some magnificent lantern slides.

At the conclusion of the lecture, His Honor Judge Docker also exhibited some views dealing with the same subject.

A hearty vote of thanks was accorded the lecturer on the motion of Professor W. H. Warren, Wh. Sc., M. Inst. C.E., and Mr. J. W. Roberts, B.E.

GENERAL MEETING.

October 14th, 1903.

There were seventeen members present, including the President.

Minutes of previous meeting were read and signed.

The amendments to Constitution and By-laws were further considered.

Discussion of Professor Warren's paper was adjourned.

The President announced that Mr. J. Davis, M. Inst. C.E., had been elected elected an honorary member.

A paper by Mr. J. P. V. Madsen, B.Sc., B.E., on "The effect of Alternating Stresses on the Physical Properties of Materials," was laid on the table.

SPECIAL GENERAL MEETING.

October 29th, 1903.

The President was in the chair. There was a large attendance of members and visitors.

The business of the evening was a Lantern Lecture on the Pymont Bridge, by Mr. Percy Allan, M. Inst. C.E., of the Department of Public Works.

The lecture generally was descriptive of the structure, the processes employed in overcoming obstacles met with in construction and erection of the superstructure and of the pivot and abutment piers.

Mr. Allan was accorded a cordial vote of thanks on the motion of Messrs. T. P. Strickland, B.E., and J. W. Roberts, B.E.

ORDINARY GENERAL MEETING.

November 11th, 1903.

The President, Mr. J. N. C. MacTaggart, B.E., occupied the chair, and sixteen other members attended.

The minutes of previous meeting were read and confirmed.

The amended Constitution was read for the third time, and a slight amendment made.

The next business was the discussion of Professor Warren's paper on "Riveted Joints in Girders." Mr. J. W. Roberts, B.E., opened the discussion and criticised in detail the various tests recorded in the paper, and was followed by Messrs. R. W. Hawken, B.E., B.A., H. S. Mort, B.Sc., and P. L. Weston, B.Sc. Professor Warren being absent, it was decided to forward such of the discussion as was written for him and invite his reply thereto.

Mr. J. J. C. Bradfield then read a paper on "The Design of the Retaining Walls, Pymont Bridge."

A vote of thanks proposed by Mr. P. L. Weston, B.Sc., and seconded by Mr. S. H. Barraclough, B.E., M.M.E., was carried by acclamation.

Mr. Bradfield replied and answered some questions, after which the discussion was adjourned.

ORDINARY GENERAL MEETING.

December 2nd, 1903.

The President and thirteen members attended.

Minutes of previous meeting were read and confirmed.

The Constitution as amended passed its final reading on the motion of Mr. L. R. Woodcock, seconded by Mr. A. Jarman, A.R.S.M.

Mr. R. A. Dallen and A. J. Gibson, Assoc. M. Inst. C.E., were appointed auditors for the year.