

THE ENGINEERING ASSOCIATION
OF
NEW SOUTH WALES.

Established 1870.

Incorporated 1884.

SESSION 1908-9.

PART I.
MINUTES OF PROCEEDINGS.

ANNUAL GENERAL MEETING, 8TH OCTOBER, 1908.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidate was balloted for and duly elected:—

Member.

HERBERT STEPHEN GOLDSMITH, Engineer, Fitzroy Dock, Sydney.

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. JAMES SHIRRA.

VICE-PRESIDENTS:

MR. EDWARD J. ERSKINE. MR. W. H. GERMAN.

HON. TREASURER:

MR. JOHN SANDS.

HON. SECRETARY AND EDITOR:

MR. HENRY V. AHRBECKER.

MEMBERS OF COUNCIL :

MESSRS. A. J. ARNOT, A. CHRISTIE,
 J. FAIRWEATHER, A. H. FRIEND,
 C. J. HOLROYDE. THOMAS IRONS,
 WALTER REEKS, JAMES MACARTNEY,
 R. STEEL.

MR. SHIRRA thanked the members for re-electing him to the Presidential Chair.

PAPER BY PROFESSOR WARREN, M. INST., C.E., WH.Sc., ETC., ON "IMPACT TESTS OF MATERIALS, HARDNESS, TOUGHNESS, AND BRITTLINESS."—Paper read, on the motion of Mr. E. J. Erskine, seconded by Mr. J. Scoular, and supported by Mr. W. H. German. A very hearty vote of thanks was accorded Professor Warren for his paper.

The meeting then terminated.

11TH MARCH, 1909.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected :—

ARTHUR WALTER RICHARDSON, Engineer, Motor Yacht "Bronzewing," c/o S. Hordern, Esq., Darling Point.

ALBERT GREGORY WATERS, Civil Engineer, Cairns Harbour Board, Cairns, North Queensland.

PRESIDENTIAL ADDRESS BY MR. JAMES SHIRRA.—The President then delivered his Presidential Address, which proved to be of a highly interesting character. After reviewing the progress made by the Association during the past year, he referred to the subject of present-day education, set forth the difference between the Engineer who had mastered only the practical portion of his profession as compared with the Engineer who had digested both the practical and the theoretical phases of his calling, and made mention of the appointment by the Council of the Association of a Committee to consider and report

to the Minister for Labour and Industry on a draft Bill for the Regulation of Land Boilers.

On the motion of Mr. J. Scoular, seconded by Mr. Russell Sinclair, a very hearty vote of thanks was accorded Mr. Shirra for his address, which was carried by acclamation.

The meeting then terminated.

15TH APRIL, 1909.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected:—

Member.

JOSEPH WILLIAM CLAXTON, Engineer, Messrs. H. McKenzie's, Ltd., Glebe Island.

Students.

KENNETH FLETCHER, Engineering Apprentice, Colonial Sugar Refining Co., Ltd., Pymont.

RAYMOND WISE GARLING, Engineering Apprentice, Colonial Sugar Refining Co., Ltd., Pymont.

LAURENCE G. HENDERSON, Engineering Apprentice, Colonial Sugar Refining Co., Ltd., Pymont.

PAPER ON THE "COOLGARDIE WATER SUPPLY," BY MR. R. J. VINCENT, ILLUSTRATED BY LANTERN SLIDES.—Paper read, and lantern slides explained by Mr. Vincent.

Mr. W. H. German proposed a very hearty vote of thanks to Mr. Vincent for his very excellent paper, which was seconded by Mr. G. A. Julius, who said that, knowing the scheme from beginning to end, he could bear out the author's remarks that it would be an ultimate success.

The motion was carried by acclamation.

The meeting then terminated.

13TH MAY, 1909.

MR. EDWARD J. ERSKINE, SENIOR VICE-PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected :—

Member.

ALFRED JAMES BORCHERT, Engineer, 315 Kent-street, Sydney.

Student.

EDWIN JOHN PARRY, Engineering Apprentice, Mort's Dock and Engineering Co., Ltd., Balmain.

PAPER ON "LABOUR-SAVING DEVICES AND APPLIANCES," BY MR. G. A. JULIUS, M.E., ILLUSTRATED BY LANTERN SLIDES.—Paper read, and lantern slides explained by Mr. Julius.

On the motion of Mr. J. Scoular, seconded by Mr. R. R. Ferrier, and supported by Mr. O. W. Brain, a very hearty vote of thanks was accorded Mr. Julius for his valuable paper, the motion being carried by acclamation. Mr. Julius returned thanks.

The meeting then terminated.

10TH JUNE, 1909.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected :—

Students.

KENT REEKS, Engineering Apprentice, c/o Messrs. Begg and Greig, Miller's Point, Sydney.

LORIS MAYNARD ROBERTS, Student, Engineering School, the University, Sydney.

PAPER (COMMUNICATED) ON "THE GROWTH OF ALGAE (SPIRRULUM) IN RESERVOIRS AND HOW TO TREAT IT," BY MR. JAMES FAULKNER.—Paper read by the President, Mr. Shirra, and, on the motion of Mr. Edward J. Erskine, it was resolved that a very cordial letter of thanks be forwarded to Mr. Faulkner for his valuable paper.

PAPER ON "NOTES ON SOME MODERN METHODS OF STEAMSHIP CONSTRUCTION," BY MR. WALTER REEKS.—Paper read, and diagrams explained by Mr. Reeks.

Discussion opened by Mr. James Macartney, followed by Messrs. W. H. German and the President, Mr. James Shirra.

On the motion of the President, Mr. Shirra, seconded by Mr. Hector Kidd, a very hearty vote of thanks was accorded Mr. Reeks for his interesting and instructive paper, the motion being carried by acclamation.

Mr. Reeks replied to the various points raised.

The meeting then terminated.

8TH JULY, 1909.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected:—

Members.

JOHN BRYDEN BROWN, Engineer, Lux Chambers, 16 Pitt-street, Sydney.

WILLIAM KELLEY, Resident Inspector, Metropolitan Board of Water Supply and Sewerage, 605 Wellington-street, Perth, West Australia.

GORDON MARR, Engineer, Miller-street, Pyrmont.

Student.

ROY TELFER STEEL, Engineering Apprentice, Mort's Dock and Engineering Co., Ltd., Balmain.

PAPER ON DESCRIPTION OF A NEW ZEALAND COAL MINE," ILLUSTRATED WITH LANTERN SLIDES BY MR. C. J. HOLROYDE.—Paper read, and lantern slides explained by Mr. Holroyde.

On the motion of Mr. Edward J. Erskine, seconded by Mr. R. R. Ferrier, and supported by Mr. J. W. Bragg, a very hearty vote of thanks was accorded Mr. Holroyde for his interesting paper, which was carried by acclamation.

The meeting then terminated.

12TH AUGUST, 1909.

MR. JAMES SHIRRA, PRESIDENT, in the Chair.

The following candidates were balloted for and duly elected :—

Member.

GEORGE ROBERTSON MARR, Engineer, Australasia Chambers, Martin-place, Sydney.

PAPER ON "SOME NOTES UPON THE DESIGN AND USE OF SPEED REDUCING GEARS," BY MESSRS. HENRY SHAW AND JAMES McNAMARA.—Paper read, and diagrams explained by Mr. Shaw.

The discussion was opened by Mr. G. A. Julius, who proposed a very hearty vote of thanks to Messrs. Shaw and McNamara for their interesting paper, followed by Mr. C. H. Relph, who seconded the vote of thanks, followed by Messrs. W. H. German, Eric F. Boulton, James Kidd, and the President, Mr. Shirra.

The President put the vote of thanks to the meeting, which was carried by acclamation.

Mr. Shaw having replied to the various points raised, the meeting then terminated.

9TH SEPTEMBER, 1909.

THE SENIOR VICE-PRESIDENT, MR. EDWARD J. ERSKINE, in the Chair.

The following candidates were balloted for and duly elected :—

Members.

RICHARD MANNING, Engineer, Pacific Foundry, Druitt-street, Sydney.

JOSEPH SCHMIDT, Engineer, "Pauline," Princess-street, Blue's Point.

JOHN HERBERT STEEDMAN, Engineer, Colonial Sugar Refining Co., Ltd., Goondi, Geraldton, North Queensland.

APPOINTMENT OF AUDITORS TO AUDIT THE ACCOUNTS FOR

THE SESSION ENDING 30TH SEPTEMBER, 1909.—On the motion of Mr. William Sinclair, seconded by Mr. A. W. Price, Messrs. D. F. J. Harricks and R. R. King were duly appointed Auditors.

APPOINTMENT OF SCRUTINEERS FOR BALLOT OF OFFICERS AND COUNCIL FOR THE ENSUING SESSION.—On the motion of Mr. Norman Selfe, seconded by Mr. James W. Kidd, Messrs. A. W. Price and Henry Shaw were duly appointed Scrutineers.

ALLOCATION OF PRIZES FOR STUDENTS' PAPERS.—The Chairman, Mr. Edward J. Erskine, announced that the Committee appointed by the Council to deal with the Students' Prize Papers awarded the prizes as follows:—

FIRST PRIZE—Mr. Ashley Plowman, for paper on
"Some Notes on Brake Tests."

SECOND PRIZE—Mr. A. D. J. Forster, for paper on
"A Brief Investigation of the Stresses in a
Lap Joint."

PRESENTATION OF PRIZES.—The Chairman, Mr. Edward J. Erskine, awarded the prizes as follows:—

FIRST PRIZE, £5/5/—Mr. Ashley Plowman.

SECOND PRIZE, £2/2/—Mr. A. D. J. Forster.

PAPER ON "THE COMMERCIAL MOTOR VEHICLE," BY MR. ERIC F. BOULT.—Paper read, and diagrams explained by Mr. Boulton.

The discussion was opened by Mr. Osgood (communicated), followed by Mr. Norman Selfe, who proposed that a very hearty vote of thanks be accorded Mr. Boulton for his paper, followed by Mr. A. J. Arnot, who seconded the vote of thanks, and Mr. W. H. German, who supported the vote of thanks, and moved that the discussion on Mr. Boulton's paper be adjourned until the next Monthly Meeting—which was seconded by Mr. R. R. King and carried.

The Chairman then put the vote of thanks to the meeting, which was carried by acclamation.

The meeting then terminated.