

**Engineering Association of New South Wales.**



*Annual Report of Council*

— — — — — *and* — — — — —

*BALANCE SHEET*

— — — — — *for the* — — — — —

*Year Ending 30th September, 1911.*

Your Council beg to present to you the Forty-first Annual Report for the year ending 30th September, 1911, showing the progress and work of the Association for the past year. During the Session just closed, the following forty-two gentlemen were elected members of the Association, as follows:—

Member	Mr. W. E. Adams.
”	” H. Bale.
”	” S. H. Barraclough.
”	” H. Brown.
”	” D. Cameron.
”	” E. J. Crocker.
”	” H. H. B. Deane.
”	” F. C. Fox.
”	” B. S. Giles.
”	” G. W. Grayson.
”	” J. Henderson.
”	” T. H. Houghton.
”	” J. F. Howarth.
”	” C. E. Marchant.
”	” Arthur Mayoh.
”	” E. W. McKeown.

Member, Mr.	S. E. Moorhouse.
”	” H. A. Roberts.
”	” H. E. Spencer.
”	” W. J. Spruson.
”	” R. Sykes.
”	” H. L. Thompson.
”	” T. W. Thornley.
”	” G. W. Twigden.

Student Associate	Mr. C. N. Huntley.
”	” W. J. Marr.
”	” E. L. Tighe.

Student Mr.	T. M. Baylis.
”	” A. G. Campbell.
”	” L. G. Cole.
”	” D. R. Dowling.
”	” C. L. Fenner.
”	” C. Ferguson.
”	” F. J. Ferguson.
”	” L. W. Kidd.
”	” H. V. Hoskins.
”	” W. L. Lamond.
”	” L. J. Fathers.
”	” R. S. Moore.
”	” C. N. Nagle.
”	” S. T. Robbins.
”	” R. M. Robinson.

And the following resignations were accepted, viz:—

Member Mr.	M. T. N. Bluck.
”	” J. H. Butters.
”	” P. Connie.
”	” J. Faulkner.
”	” M. B. Halligan.
”	” E. W. Marriott.

Student Mr. R. W. Garling.  
 „ „ L. R. Muras.

Whilst the following gentlemen ceased to be members:—

Member Mr. T. W. Appleton.  
 „ „ J. W. Balfour.  
 „ „ A. J. Fischer.  
 „ „ K. E. Forkel.  
 „ „ H. R. Hill.  
 „ „ T. T. Hodgkinson.  
 „ „ A. M. Howarth.  
 „ „ G. R. Mair.  
 „ „ R. Maxwell.  
 „ „ W. McNamara.  
 „ „ H. A. Membrey.  
 „ „ A. W. Richardson.  
 „ „ E. C. Steere.

Student Mr. T. Freeman.  
 „ „ A. R. Tivendale.  
 „ „ E. H. Closs.  
 „ „ E. J. Parry.  
 „ „ K. Reeks.  
 „ „ R. C. Thomas.

Your Council has to record with deep regret the serious loss sustained by the Association through the death of the late Honorary Secretary and Editor, Mr. Henry V. Ahrbecker, and desire to place on record the unselfish devotion which Mr. Ahrbecker has always shown to the interests of the Association and Engineering profession generally.

The total number of members of the several grades is now 231, as compared with 217 at the close of last Session.

During the year 12 meetings of the Council have been held, the attendance at which was as follows:—

G. A. Julius, President .....	Attended 11 meetings
James Macartney, Vice-President .....	„ 8 „
Walter Reeks, Vice-President ..	„ 8 „
John Sands, Hon. Treasurer ....	„ 9 „
H. V. Ahrbecker, Hon. Sec. and Editor.....	(deceased.)
I. W. Bragg, Councillor .....	„ 3 „
Thomas Ferguson, Councillor ....	„ 10 „
R. R. Ferrier, Councillor .....	„ 7 „
R. Grant, Councillor .....	„ 7 „
C. J. Holroyde, Councillor .....	„ 1 „
Hector Kidd, Councillor .....	„ 6 „
James Kidd, Councillor .....	„ 5 „
R. R. King, Councillor .....	„ 4 „
James Shirra, Councillor .....	„ 9 „
Edw. J. Erskine, <i>Ex-Officio Mem- ber, Past President</i> .....	„ 2 „

#### PRIZE TO STUDENTS.

Your Council regret the lack of interest shown by the Student Members in the Prize Competitive Papers, only one paper being received in connection with the competition this Session, and hope for better results next year. The second prize of £2 2s. has been awarded to Mr. G. N. Tregarthen for his paper on “The Use of Cylinder Oil.”

During the year 10 meetings—with an average attendance of 69 members—have been held, at which the following papers have been read and discussed: —

1910.

Oct. 13: Paper on “Troubles due to the Aeration of Water in Pumps,” by Mr. G. N. Tregarthen (Student Member).

## 1911.

- March 9: The Annual Address delivered by the President, Mr. G. A. Julius.
- April 20: Paper on "Fitting and Running Refrigerating Machinery on Shipboard," by Mr. William Sinclair.
- May 26: Paper on "The Deisel Engine and its Application," illustrated with Lantern Slides, by Mr. H. H. B. Deane.
- June 8: Paper on "The Strength, Elasticity, and other Properties of New South Wales Hardwood Timbers," illustrated with Lantern Slides, by Professor W. H. Warren, Wh.Sc., M. Inst., C.E., etc.
- June 29: Discussion on Professor Warren's paper on "The Strength, Elasticity, and other Properties of New South Wales Hardwood Timbers."  
Discussion on Mr. H. H. B. Deane's paper on "The Deisel Engine and its Application."
- July 13: Paper on "Condensing Plant," by Mr. F. Saunders, A.M.I.Mech.E., illustrated by Lantern Slides.
- Aug. 10: Paper on "Supply of Air for Blast Furnace and Kindred Operations," illustrated with Lantern Slides, by Mr. W. H. Grieve.
- Sep. 14: Paper on "Boiler Explosions as Affected by Unsymmetrical Riveted Joints," part I., "Typical Lap Joint Boiler Explosions," illustrated with Lantern Slides, by Professor S H. Barraclough.
- Sep. 29: Paper on "Boiler Explosions as affected by Unsymmetrical Riveted Joints." Part II., "An Experimental Investigation of the Strains on Unsymmetrical Riveted Joints"; illustrated with Lantern slides by Professor S. H. Barraclough.

## EXCURSIONS.

October 27, 1910.—Trip to Lithgow.

By the courtesy of the Messrs. G. and C. Hoskins, a number of members visited the Lithgow Ironworks, and spent a most enjoyable and instructive day, the party being most liberally entertained by the Messrs. Hoskins, a special train conveyed the party to and from Lithgow, and the excursion was in every way a success.

March 3, 1911.—Trip to Port Kembla.

By the courtesy of B. Magnus, Esq., members were afforded an opportunity of inspecting the works of the Electrolytic Refining and Smelting Co. of Australia, Limited, at Port Kembla, which proved of great interest to those present, and the excursion was a most enjoyable one.

## P. N. RUSSELL BEQUEST.

Following the death of the late Lady Russell, the sum of three thousand pounds has been paid into the funds of the Association by the trustees of the Estate of the late Sir P. N. Russell, who bequeathed that sum to this Association without restriction of any kind.

It was undoubtedly his intention that this money should be devoted to the development of Engineering education and training, and your Council trust that during the coming year, some arrangement may be made to utilize the bequest in such a manner as will be in keeping with his intention.

## PUBLICATION OF PROCEEDINGS.

Owing to the sudden decease of the late Mr. Henry V. Ahrbecker, the Honorary Secretary and Editor, an unavoid-

able delay has occurred in the publication of the proceedings of the Association. Mr. Ahrbecker had in hand the completion of the volume for last session at the time of his death. Your Council have appointed a committee to edit the proceedings and hope shortly to have them brought up to date.

#### STUDENTS' SECTION.

The following papers have been read at the General Meetings of Student Members, held in the Library of the Association during the Session:—

1910.—Oct. 18: Paper on "Experiences with Centrifugal Pumps," by Mr. G. N. Tregarthen.

1911.—March 21: Paper on "Friction Clutches," by Mr. K. M. Fletcher.

April 26: Paper on "Relative Merits of Locomotive Reversing Gears," by Mr. G. M. Drinkwater.

May 16: Paper on "The Design and Efficiency of Screw Propellers," by Mr. R. S. Lloyd.

June 20: Debate on "Centrifugal v. Reciprocating Steam Pumps."

July 18: Paper on "Locomotive Injectors," by Mr. J. K. Donaldson.

Aug. 15: Paper on "Notes on Hull Design," by Mr. G. W. F. Findlay.

Sep. 19: Paper on "Ignition of Internal Combustion Engines," by Mr. J. Hamilton.

#### EXCURSIONS.

June 7, 1911: Visit to the Government Printing Office.

September 27: Visit to the City Municipal Power House, Pymont.



