

# Engineering Association of New South Wales.

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## Annual Report of Council

### and BALANCE SHEET

for the  
Year Ending 30th September, 1909

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Your Council beg to present to you the Thirty-ninth Annual Report for the year ending 30th September, 1909, showing the progress and work of the Association for the past year. During the Session just closed, the following nineteen gentlemen were elected members of the Association, as follows:—

Member	Mr. A. J. Borchert.
”	” J. B. Brown.
”	” J. W. Claxton.
”	” H. S. Goldsmith.
”	” William Kelley.
”	” G. R. Mair.
”	” G. Marr.
”	” A. W. Richardson.
”	” A. G. Waters.
”	” Richd. Manning.
”	” Jos. Schmidt.
”	” John H. Steedman.
Student	Mr. K. Fletcher.
”	” R. W. Garling.
”	” L. G. Henderson.
”	” E. J. Parry.
”	” Kent Reeks.
”	” L. M. Roberts.
”	” R. T. Steel.

And the following resignations were accepted, viz.:—

Mr. F. Bowden.  
 „ A. F. Hirschel.  
 „ K. S. Sinclair.  
 „ T. C. Walker.  
 „ E. G. Fleming.  
 „ G. P. Cogger.

Whilst the following gentlemen ceased to be members:—

Mr. M. Allan.  
 „ R. K. Oliver.  
 „ A. B. Scorer.  
 „ Alex. Cullen.  
 „ F. D. Hunter.  
 „ W. W. Pillars.  
 „ R. V. Edwards.  
 „ H. Mainwaring.  
 „ W. J. Stone.

Your Council has to record with deep regret the loss by death of the following members:—

Mr. John Reid.  
 „ Thomas Ferguson.

The total number of members of the several grades is now 202, as compared with 200 at the close of last Session.

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

James Shirra, President . . . . .	Attended 11 meetings.
E. J. Erskine, Vice-President . . . . .	„ 9 „
W. H. German, Vice-President . . . . .	„ 11 „
John Sands, Hon. Treasurer . . . . .	„ 9 „
Henry V. Ahrbecker, Hon. Sec. and Editor . . . . .	„ 12 „
A. J. Arnot, Councillor . . . . .	„ 1 „
A. Christie, Councillor . . . . .	„ 5 „

J. Fairweather, Councillor .....	Attended 8 meetings
A. H. Friend, Councillor .....	„ 12 „
C. J. Holroyde, Councillor .....	„ 9 „
Thomas Irons, Councillor .....	„ 5 „
James Macartney, Councillor ....	„ 8 „
Walter Reeks, Councillor .....	„ 6 „
Robert Steel, Councillor .....	„ 12 „

### LIFE MEMBERSHIP.

At the Council Meeting held on the 4th February, it was resolved to confer the honour of Honorary Life Membership on Mr. Norman Selfe, one of the Founders of the Association, who has always exhibited a keen and active interest in its proceedings and welfare.

### SYDNEY UNIVERSITY ENGINEERING SOCIETY.

PAPER ON NOTES ON "THE DISTRIBUTION OF POWER IN A DOUBLE ENDED SCREW STEAMER."

By Alex. J. Gibson, Assoc. M. Inst., C.E.

The various experiments, conducted by Professor W. H. Warren, with a view to arriving at definite data as to the relative merits of the two propellers in double-ended screw steamer, together with a description of the methods adopted in arriving at same, was the subject of an interesting paper read by Mr. Alex. J. Gibson, on the 14th July, 1909, at the University, to which meeting our members were invited.

### LAND BOILERS INSPECTION BILL.

A Committee was appointed by the Council at the close of last Session to consider and report on the draft bill prepared by the State Government for the inspection of land boilers; the Minister for Labour and Industry having signified that he would be pleased to have our views on the matter.

Ten meetings were held, the bill carefully gone into, and compared with those passed in neighbouring States. The results of the Committee's deliberations were duly put before the Minister, who authorised a payment to the Association for type-writing and for remuneration of the Secretary for his extra work in attending the meetings, keeping minutes and preparing reports, of £24. It is hoped the Committee's work will be of service to the State.

#### PRIZES TO STUDENTS.

At the General Meeting on September 9th, the prizes for competitive papers prepared by students were awarded. The first prize, £5 5s., being awarded to Mr. Ashley Plowman, for his paper on some notes on Brake Tests; the second of £2 2s., to Mr. A. D. J. Forster, for paper on "A brief investigation of the Stress in a Lap Joint." Five papers were received altogether, and the Council has pleasure in being able to state that the quality of these papers showed a marked improvement on former attempts.

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The Council desire to express their thanks to the various members who have contributed papers during the Session.

During the year eight meetings—with an average attendance of 66 members—have been held, at which the following papers were read and discussed:—

Oct. 8: Paper on "Impact Tests of Materials, Hardness, Toughness, and Brittleness," by **PROFESSOR** Warren, M. Inst, C.E., Wh. Sc.

March 11: The Annual Address, delivered by the President, Mr. James Shirra.

April 15: Paper on "The Coolgardie Water Supply," by Mr. R. J. Vincent.

May 13: Paper on "Labour Saving Devices and Appliances," by Mr. G. A. Julius, M.E.

June 10: Paper on "The Growth of Alga (Spirillum), in Reservoirs and how to treat it," by Mr. James Faulkner.

Paper on "Notes on Some Modern Methods of Steamship Construction," by Mr. Walter Reeks.

July 8: Paper on "Description of a New Zealand Coal Mine," by Mr. C. J. Holroyde.

August 12: Paper on "Notes upon the Design and Use of Speed-Reducing Gears," by Messrs. Henry Shaw and James McNamara.

Sept. 9: Paper on "The Commercial Motor Vehicle," by Mr. Eric F. Boulton.

#### STUDENTS' SECTION.

The following papers have been read at the General Meetings of Students, held in the Library of the Association during the year:—

Oct. 20: Paper on "Mechanical Stokers and Efficient Combustion," by Mr. G. N. Tregarthen.

March 16: Paper on "Some Methods of Steam Distribution in Steam Engines," by Mr. G. M. Drinkwater.

April 20: Paper on "Steel Roofs," by Mr. L. R. Muras, Jun.

May 18: Paper on "Oil Engines," by Mr. R. S. Lloyd.

June 22: Debate on "Steam Engines and Internal Combustion Engines."

July 20: Paper on "Refrigerating Machinery," by Mr. G. W. F. Findlay.

August 17: Paper on "Some Notes on the Design of a Small Steam Engine," by Mr. G. M. Drinkwater.

Sept. 21: Paper on "Some Land Boilers and a Comparison of their Relative Merits," by Mr. G. N. Tregarthen.

#### OUTINGS.

The Students' Section has held the following outings:  
November 26: Colonial Sugar Refining Co.'s Works, Pymont.

June 16: Ultimo Power House.

July 13: Messrs. Birt and Co.'s Darling Harbour Meat Markets Refrigerating Machinery.

#### ANNUAL DINNER.

This was held at Baumann's Cafe, on the 13th November. There was a good attendance of members, and a very enjoyable evening was passed.

# ENGINEERING ASSOCIATION OF NEW SOUTH WALES.

## ACCOUNT OF RECEIPTS AND EXPENDITURE FOR THE YEAR ENDING SEPTEMBER 30th 1909.

	£	s.	d.	£	s.	d.
October 1, 1908—						
To Balance at Bank of New South Wales	26	18	5			
Balance at Savings Bank of New South Wales	78	17	8			
Cash in Hand	4	4	2			
	110	0	3			
Less Unpresented Cheques	69	19	9	40	0	6
September 30, 1909—						
Subscriptions				273	5	8
Entrance Fees, 9 Members, £2 2s.				18	18	0
Sale of Proceedings	4	2	10			
Do. Professor Warren	3	15	0			
Do. J. W. Bragg	2	16	0			
				10	13	10
Sale of Certificate				10	6	
Exchange on Cheques				1	9	
Refund of Postage				0	11	
Interest on Deposit at Savings Bank of New South Wales to Dec. 31/08				1	1	5
Boilers' Inspection Bill, per Dept. of Labour and Industry				24	0	0
Annual Dinner				28	17	6
Outstanding Liabilities—						
Radcliffe Printing House	27	5	3			
Secretary's Salary	13	0	0			
Royal Society of N.S. Wales	18	15	0			
				59	0	3
	£456	10	4			

	£	s.	d.
By Printing and Reporting Proceedings	151	2	11
Rent of Rooms	75	0	0
Secretary's Salary	52	0	0
Postage Stamps	23	3	1
General Printing	14	4	6
Stationery	5	12	6
Insurance Premiums	1	13	6
Delivery of Volumes of Proceedings	1	19	0
Advertising General Meetings	4	9	0
Bank Charge for Current Account	10	0	0
Exchange on Cheques	4	6	
Royal Society for Use of Lantern	3	0	0
Typewriting	17	2	
Sundries	12	0	
Students' Prizes, Session 1908-9	7	7	0
Printing 200 Copies of Paper for Professor Warren	3	15	0
Boilers' Inspection Bill	26	5	6
Annual Dinner	30	17	10
Balance at Bank of New South Wales	41	13	1
Balance at Savings Bank of New South Wales	9	19	1
Cash in Hand	2	4	8
	53	16	10
	£456	10	4

5th October, 1909.

Audited and found correct.

R. R. KING

# ENGINEERING ASSOCIATION OF NEW SOUTH WALES.

## REVENUE ACCOUNT, SEPTEMBER 30th, 1909.

	£	s.	d.	£	s.	d.
To Printing and Reporting Proceedings	151	2	11			
Students' Prizes .. . . . . .	7	7	0			
Annual Dinner .. . . . . .	1	9	10			
Boilers' Inspection Bill .. . . . .	2	5	6			
General Expenses—						
Rent of Rooms .. . . . . .	75	0	0			
Secretary's Salary .. . . . . .	52	0	0			
Stamps .. . . . . .	23	2	2			
General Printing .. . . . . .	14	4	6			
Stationery .. . . . . .	5	12	6			
Insurance Premiums .. . . . . .	1	13	6			
Delivery Volumes Proceedings .. . . . .	1	19	0			
Advertising General Meetings.. . . . .	4	9	0			
Bank Charge Current Account .. . . . .	10	0	0			
Exchange on Cheques .. . . . . .	2	9	0			
Use of Lantern, General Meetings	3	0	0			
Typewriting .. . . . . .	17	2	0			
Sundries .. . . . . .	12	0	0			
	—	183	2	7		
Subscriptions paid in advance prior to Session, 1908-9 .. . . . . .	9	4	3			
Less paid during Session, 1908-9 .. . . . . .	7	16	11			
		1	7	1		
Subscriptions, etc., written off during year .. . . . . .	25	9	3			
	—	£372	4	5		

	£	s.	d.	
By Entrance Fees, 12 Members at £2 2s. . . . .	25	4	0	
Sale of Proceedings .. . . . . .	4	3	4	
Interest on Deposit at Savings Bank of New South Wales .. . . . . .	1	1	5	
Members' Subscriptions—				
For half-year ending March 31, 1909 .. . . . . .	162	4	6	
For half-year ending September 30, 1909 .. . . . . .	172	19	9	
	—	335	4	3
Sale of Certificate .. . . . . .	0	10	6	
Capital Account .. . . . . .	6	0	11	
	—	£372	4	5

5th October, 1909,

Audited and found correct.

R. R. KING.  
J. D. F. HARRICKS.