

ENGINEERING ASSOCIATION  
of Sew South Wales.

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Annual Report of Council and Balance Sheet

FOR THE

**YEAR ENDED 30th SEPTEMBER, 1914.**

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Your Council beg to present to you the Forty-fourth Annual Report for the year ending 30th September, 1914, showing the progress and work of the Association for the year.

The following gentlemen were elected members of the Association during the Session:—

Members—T. M. Goodall, E. Foster, H. R. Forbes-Mac-kay, R. Lockley, H. R. Freeman, A. G. Amlisse, C. Spooner, A. C. Fewtrell, H. J. Swain, A. W. Tourney-Hinde, H. A. Bremer, A. E. Emmelhainz, H. E. J. Miles, Jas. Henderson, J. B. Fadden, Jas. Smith.

Associate—R. Gillies.

Students—H. T. Hammond, O. W. Baker, J. A. Williams, R. H. Fry, J. G. Dilling, H. R. Lambert, A. McNiven, G. S. Rowe, R. B. Sharp, E. H. Thomas, C. H. Eyre, A. S. Shepherd, N. Essermann, E. S. Maclean, C. H. G. Henty, V. G. Christmas, K. S. Kopsen.

While the following resignations were accepted:—

Members—T. L. Kenway, R. Manning, P. F. Allen, R. H. Walker, G. Boulton, G. R. Robertson, A. E. Robbins, H. Pauch.

Your Council have again to report with regret that death has removed several prominent members from our midst, and would put upon record the valuable services rendered to the Association by our late Secretary, Mr. Wm. Hosking, who so ably and conscientiously carried out the duties of that office for many years.

Second Prize of £2 2s. to Messrs. T. M. Baylis and R. S. Moore, for their paper on "Rear Axle Drives for Motor Vehicles."

The papers were all of exceptional merit, and displayed a careful consideration of the various subjects dealt with by the authors. It is with pleasure, therefore, that they place on record their appreciation of the papers referred to.

#### PAPERS AT GENERAL MEETINGS.

The thanks of the Council and Members is also tendered to those of the Association who have contributed papers during the Session. The excellence of the papers, and the broad scope of the matters dealt with, calls for better consideration from the members generally, as it is only by discussing the data placed before the meeting that the full value of the subject can be realised.

Your Council asks your hearty co-operation in this matter during the ensuing Session, for although they have nothing much to complain of in this respect, it is our duty to spur each other on to further effort.

During the year eight General Meetings, with an average attendance of 70 members, have been held, at which the following papers have been read and discussed:—

1913.—Oct. 9th: Paper on "Conveying Machinery," by Mr. B. W. Jones.

1914.—March 12th: The Annual Address by the President, Mr. Walter Reeks, M.I.N.A.

April 9th: Paper on "Liquid Fuel," by Mr. J. G. McEwin.

June 11th: Paper on "Mechanical and Electrical Clocks," by Mr. A. W. Tourney-Hinde.

May 14th: Paper on "Long Span Bridges," by Mr R. H. Fry (Student Member).

July 9th: Paper on "A Modern Pumping Plant," by Mr. A. F. Saunders.

Aug. 13th: Paper on "The Turbulent Motion of the Gases in an Ordinary 4-Cycle Gas Engine," by Mr. H. J. Swain, B.Sc. Sydney, B.A. Cantab.

Sept. 10th: Paper on "Geared Steam Turbines," by Mr. W. H. Grieve.

## EXCURSIONS.

Through the courtesy of Commander Bromwich, arrangements were made with the Commander for a Saturday afternoon (6th June) inspection of H.M.A.S. Australia by the Student Section. A fair sprinkling of members accompanied the Juniors, and spent a very pleasant and instructive afternoon, full access being given to almost every part of the ship.

In order to extend a welcome to the members of the Engineering Section of the British Association for the Advancement of Science during their visit to Sydney, the members of this Association, in conjunction with those of kindred Societies, entertained the visitors at a luncheon held at Farmer's Rooms. The meeting was most enthusiastic, and the friendly intercourse with the distinguished visitors on that occasion will long be remembered.

On September 5th an outing was arranged by the President with the Harbour Trust Commissioners, which embraced an inspection of all the new works carried out and under construction by that body. Members to the number of 45 were taken aboard the s.s. Lady Hopetoun and shown all the items of interest, these being pointed out and explained to those present by Mr. Walter Adams, whose assistance was greatly appreciated by the members.

## P. N. RUSSELL BEQUEST.

After due consideration as to the best means to dispose of the income from the above, your Council have decided that such shall be devoted to the upkeep and enlargement of the Association Library. Additional storage capacity has already been provided, and as time proceeds it is expected that as a "reference" library ours will be much sought after, not only by the members of our Association, but by others of the profession. The work of bringing this branch up to date has been entrusted to Mr. H. Pasquill, who, as Hon. Librarian, has already entered upon his duties.

## OFFICIAL JOURNAL.

The copies of the "Salon," now being regularly received by the members are, we find, very much appreciated. The various items appearing under the Engineering Section of the Journal have been a decided acquisition to the text matter of the publication.

The thanks of the Association are due to Mr. T. Gurney for his valuable services as Assistant Editor of the Engineering Section of the Journal.

### SMOKE CONCERT.

This was held on 28th November, 1913, and the attendance was fairly satisfactory. A good programme of musical items was submitted, and helped greatly towards the success of the evening.

### STUDENT SECTION.

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

1913.—Oct. 15th: "The Diesel Engine," by Mr. W. G. Bill.

1914.—March 25th: "Rear Axle Drives for Motor Vehicles," by Messrs. T. M. Baylis and R. S. Moore.

April 22nd: "Some Notes on the Design and Construction of Long Span Bridges," by Mr. R. H. Fry.

June 24th: "The Manufacture of Coal Gas," by Mr. S. J. McAuliffe.

July 22nd: "Automatic Cutouts for Electrical Installations," by Mr. W. E. Pike, B.E.

August 26th: "Steel Workshop Construction to Suit Colonial Conditions," by Mr. J. G. Dilling.

Sept. 23rd: "Some Notes on Ball Bearings," by Mr. T. M. Baylis.

The attendances have shown a slight improvement upon those of last Session, but still leave much to be desired. Undoubtedly the high standard of the papers submitted deserves better consideration from both members and student members alike.

The discussions are carried out in a bright and pleasant manner, and the meetings generally are of an instructive and practical nature. A Committee has been appointed by your Council to still further the interests of this section, but owing to unforeseen circumstances their deliberations have not yet been made known.

Another member who will be greatly missed is Mr Robert Scott, prominent in the earlier days of the Association. His record dates back 40 years. Two other members, in Messrs. T. J. Bush and J. R. Thompson, have also been called away.

Membership.—The total number of members of the several grades is now 274, as compared with 252 at the close of last Session.

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

Mr. W. Reeks, President . . . . .	Attended	8 meetings
Prof. Barraclough, Vice-President	”	2 ”
Mr. J. W. Bragg, Vice-President	”	11 ”
” G. A. Julius, Past President, ex officio . . . . .	”	5 ”
” C. J. Holroyde, Hon. Treas.	”	5 ”
” D. J. Harricks, Hon. Sec. and Editor . . . . .	”	5 ”
” W. H. Grieve, Councillor ..	”	9 ”
” James Macartney, Councillor	”	7 ”
” Wm. Sinclair, Councillor ..	”	10 ”
” Jas. McNamara, Councillor ..	”	10 ”
” T. Brown, Councillor . . . . .	”	5 ”
” Alex. Stobo, Councillor ....	”	10 ”
” A. F. Saunders, Councillor ..	”	7 ”
” H. L. Thompson, Councillor .	”	10 ”
” R. Sykes, Councillor . . . . .	”	6 ”
” H. A. Roberts, Councillor ..	”	3 ”

Mr. H. A. Roberts resigned from the Council, having been called away to America, and Mr. Sykes was elected to fill the vacancy by Council.

#### PRIZES TO STUDENTS.

The splendid effort put forward by the Student Section last year has led the Council to again decide to present prizes for the best two papers read before the Student Meetings during the Session.

The Committee appointed by the Council to judge the papers awarded the prizes as follows:—

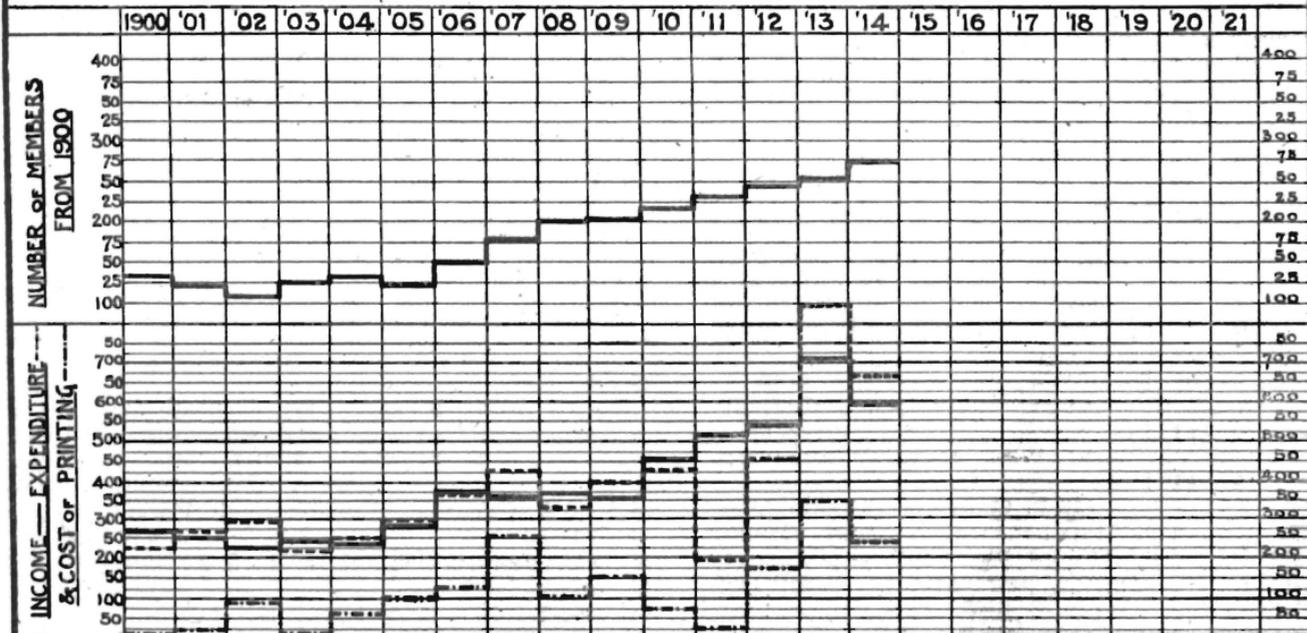
First Prize of £5 5s. to Mr. J. G. Dilling, for his paper on “Steel Workshop Construction to Suit Colonial Conditions.”



REVENUE ACCOUNT FOR YEAR ENDED 30th SEPTEMBER, 1914.

	£	s.	d.		£	s.	d.	£	s.	d.	
To Printing and Reporting Proceedings ..	235	5	4	By Entrance Fees .. ..	35	14	0				
„ Annual Smoke Concert .. ..	8	18	0	„ Subscriptions .. ..	310	16	3				
„ Students' Dinner .. ..	1	0	0					346	10	3	
„ Harbour Excursion .. ..	1	9	6	„ Interest on Fixed Deposit ..				120	0	0	
„ Students' Prizes .. ..	8	8	0	„ Interest on Savings Bank							
„ Patriotic Fund Contribution .. ..	50	0	0	Deposit .. ..					4	10	7
„ Rent of Rooms .. ..	87	10	0	„ Loss for year .. ..				103	4	10	
„ Secretary's and Acting Secretary's											
Salaries .. ..	83	6	8								
„ Stamps .. ..	32	18	2								
„ General Printing .. ..	29	2	7								
„ Stationery .. ..	17	3	11								
„ Delivery of Volumes .. ..	2	0	5								
„ Hire of Lantern .. ..	8	0	0								
„ Insurance .. ..	1	7	4								
„ General Expenses .. ..	7	15	9								
	£574	5	8					£574	5	8	

## ENGINEERING ASSOCIATION OF N. S. W.



THE VARIATIONS IN THE EXPENDITURE ARE DUE TO THE IMPOSSIBILITY OF ALLOTING THE COST OF PRINTING CORRECTLY FOR EACH YEAR. THIS IS DUE TO THE UNAVOIDABLE DELAYS THAT HAVE OCCURRED IN THE PUBLICATION OF THE VOLUMES.