

THE
Institution of Engineers
Australia.
PERTH DIVISION

Annual Report
for the
Twentieth Session
1939

GLEDDEN BUILDINGS,
PERTH.

The Institution of Engineers, Australia

(Incorporated by Royal Charter, 1938.)

PERTH DIVISION.

COMMITTEE REPORT FOR THE 1939-40 SESSION.

The retiring Committee has pleasure in submitting its report for the 20th Session of the Perth Division of The Institution.

We congratulate Lieut.-Col. G. Drake-Brockman, M.C., M.I.E.Aust., on his nomination as President-elect of The Institution for the 1940-41 Session, and express our appreciation of the honour conferred on him and the Perth Division.

The 19th Annual General Meeting was held at Division Headquarters, Gledden Building, on 27th March, 1939, when the retiring Chairman, Mr. J. W. Young, M.I.E.Aust., delivered his address, "The Problem of Traffic and Road Development in Western Australia," and the following members were declared elected as Officers and Committee for the 1939-40 Session:—

Chairman	Mr. W. A. McCullough
Past-Chairman	„ J. W. Young
Vice-Chairman	„ J. S. Foxall
Vice-Chairman	„ E. H. Oldham
Hon. Secretary	„ J. B. Jukes
Hon. Treasurer	„ A. G. Sloane

Committee: Assoc.-Prof. O. F. Blakey, Dr. A. T. Bowden, Messrs. E. W. C. Godfrey, S. J. Hood, F. M. Kenworthy, H. Middleton.

COMMITTEE MEETINGS.

Eleven Committee Meetings were held during the Session, and the attendance was as follows:—

Blakey, O. F.	6	Jukes, J. B.	11
Bowden, A. T.	2 (a)	Kenworthy, F. M.	9
Davies, I.	9 (c)	McCullough, W. A.	8
Foxall, J. S.	5 (b)	Middleton, H.	8
Godfrey, E. W. C.	8	Oldham, E. H.	11
Grigg, C. D.	8 (d)	Sloane, A. G.	8
Hood, S. J.	5	Young, J. W.	9

- (a) Leave of Absence, 9 meetings.
- (b) Leave of Absence, 4 meetings.
- (c) Asst. Honorary Secretary.
- (d) Representative of Juniors & Students' Section.

REPRESENTATION ON COUNCIL.

The Councillors for the Division for the 1939-40 Session were Assoc.-Prof. O. F. Blakey and Messrs. W. A. McCullough and J. W. Young. These members have been re-elected for the 1940-41 Session.

Assoc.-Prof. Blakey attended the 81st Meeting of Council held in Sydney in October.

SCRUTINEERS.

The Committee acknowledges with thanks the services of the following members, who acted as scrutineers for the 1939-40 Session :—

Messrs. F. B. Durrant, J. D. Leach and D. A. Ross.

MEMBERSHIP.

The membership of the Division at 31/12/39 was as follows :—

Members	29
Associate Members	160
Associates	1
Juniors	38
Students	44
	272

The following were elected during the year :—

Member:

J. Stevenson Young

Associate:

Member:

Pidgeon, J. A.
Taylor, F. J. N.

Junior:

Halpern, L.
Kilminster, R. W.
Taylor, J. A.
Umschweif, L.

Student:

Clarke, E. S.
Lane, E. H.
McCleery, J. M.
Odlum, A. H. R.
Siggs, E. M.
Young, N. S.

Grade Transfers during the year :—

Assoc. Member to Member: Junior to Associate Member:

Foxall, J. S.
Kenworthy, F. M.
McCullough, W. A.

Gillespie, J. D.
Klem, C. T.
Lambert, A. E.
Temby, D. O.
Weatherburn, D. C.
Weatherburn, A. K.
White, O. C. C.

Student to Associate Member:

Espie, J. R.
Warman, C. H.

Button, R. G.
Simpson, R. C.
Shirley, J. B.

Transfers from other Divisions :—

Associate Members:

Barr, F. R.
McRae, M. P.
Paterson, R. B.

Junior:

Bott, K. G.

Transfers to other Divisions :—

Associate Members:

Cooper, K. L.
Hosking, F. K.
Manners, G. S.
McCay, L. B.

Students:

Beecham, R. A.
Clarke, E. S.
Hill, A. R.
Mills, D. C.
Rutherford, A. D.

ERASURES—

Sheppard, H. J. (A.M.)
McCombe, A. G. (Std.)

DEATHS—

Whitfeld, H. E. (M.)
Davis, M. J. (M.)

THE YEAR'S WORK.

The following General Meetings were held during the Session :—

Date	Paper or Address	Author	Att.
24/4/39—	Tides at Fremantle	A. Bennett	48
22/5/39—	Relaying of the Morawa-Mul- lewa Section	E. G. Clifford and T. G. Chippington	32
26/6/39—	Discussion and Short Papers on Members and Chamber "Secondary Industries in of Manufactures W.A."		70
24/7/39—	Reconstruction of Jetties in the North-West	J. J. G. Punch	25
28/8/39 (a)—	Electricity Supply in W.A.	W. H. Taylor	45
25/9/39—	Construction of Bituminous W. A. McCullough and Artificial Catchments at J. W. Young Perenjori and Narrogin		40
23/10/39 (b)—	Power	Prof. A. D. Cameron	68
27/11/39—	Some Impressions Abroad	J. A. Ellis	70
	(a) This was a joint meeting with the W.A. Branch of the Institution of Electrical Engineers, London.		
	(b) This was an invitation lecture at which ladies and mem- bers of kindred societies were present.		
	The average attendance at the General Meetings was approxi- mately 50.		
	The Annual Dinner was cancelled owing to the nation being at war.		
	The Division's representatives have been associated with the following organisations during the Session :—		
	Committees of the Standards Association of Australia.		
	Air Raids Precautions Committee.		
	The Civic and Professional Group Committee of the Ministry of Information.		
	The Engineering Faculty of the University of W.A.		
	A committee of the Department of Industry.		
	A committee was appointed and conferred with officials of the Mines Department regarding the drafting of the pro- posed Amending Bill to the Inspection of Machinery Act.		

FINANCE.

The Auditors' Report, the Annual Balance Sheet and Revenue Account are presented with this report.

AWARDS AND MEDALS.

Congratulations are extended to the following members for the honours conferred on them:—

Mr. K. W. Taplin, A.M.I.E.Aust., was awarded the Gledden Fellowship by the University of W.A. This was the first award of this Fellowship.

Messrs. N. Fernie, A.M.I.E.Aust., and R. J. Keating, A.M.I.E. Aust., have been awarded the Chapman Medal for 1935 (1st award), for their paper entitled, "Continuous Welding of Exposed Mains, as Applied to the Goldfields Water Supply."

Messrs. R. J. Dumas, M.I.E.Aust., and V. C. Munt, A.M.I.E. Aust., have been awarded the Chapman Medal for 1936 (2nd award), for their paper entitled "The Construction of the Canning Dam, Western Australia."

Mr. F. S. Shaw, Stud.I.E.Aust., was awarded the first prize in the Cable Makers' Association Engineering Drawing Competition for W.A.

Mr. V. L. Moore, Stud.I.E.Aust., was awarded the second prize in the Cable Makers' Association Engineering Drawing Competition for W.A.

Mr. K. F. Hudson, Jun.I.E.Aust., was awarded the Juniors and Students' Prize for 1938. This is the second occasion on which Mr. Hudson has been awarded the prize.

LIBRARY.

The binding of Journals has been kept up to date, thirteen new reference books have been added to the library, and an attractive book-plate has been obtained. The Committee hopes that this policy of adding to the reference section each year will be continued.

THE DAVIS BEQUEST.

Mr. M. J. Davis, M.I.E.Aust., who died in May, 1939, bequeathed the sum of £100 sterling to the Perth Division of The Institution. With this generous bequest the Division Committee has purchased a complete 16 mm. Movie Camera and Projector equipment which is to be suitably inscribed with Mr. Davis' name. This equipment will be of great value to the Division in obtaining records of works, exchanging films with other Divisions and professional bodies and for recording the highlights of Conferences and similar Institution activities. Rules for the use of the equipment by members have been circulated.

JUNIORS AND STUDENTS' SECTION.

This Section had a successful year under the Chairmanship of Mr. J. J. Edwards, Stud.I.E.Aust., and a report of their activities is appended.

JAMES B. JUKES.

Hon. Secretary.

JUNIORS AND STUDENTS' SECTION. ANNUAL REPORT.

The Management Committee has pleasure in presenting the Annual Report of the Section during the 1939-40 Session.

The 8th Annual Meeting was held on 21st November, 1938, when the following officers were elected for the 1939-40 Session:—

Chairman	Mr. J. J. Edwards
Vice-Chairman	Mr. G. L. Cheffins
Hon. Secretary	Mr. C. D. Grigg
Committee: Messrs. P. G. Leyden, N. H. Stewart	
	and H. B. Jarvis

A paper entitled "History of Architecture" was read by Mr. Ilroy, of the Royal Institute of the Architects of W.A. Sixteen members attended.

The 36th General Meeting was held on 8th May, 1939, when Mr. J. J. Edwards read a paper entitled "Road Construction." Eleven members present.

At the 37th General Meeting, held on 12th June, Mr. F. S. Shaw delivered a paper entitled "Analyses of Continuous Structures by means of Models," in the presence of 18 members.

The 38th General Meeting, held on 17th July, was attended by 12 members, when Mr. L. Umschweif read a paper entitled "Timber and its Application to Building Construction."

The 39th General Meeting was held on Monday, 14th August. Mr. F. E. Leahey delivered a paper entitled "Oil Firing Equipment."

At the 40th General Meeting held on 19th September a lecture, illustrated by a series of films, was given by Mr. Butterworth, of the Western Oxygen Company, on various phases of welding. Fifteen members were in attendance.

Although the year started with symptoms of enthusiasm well in evidence, the outbreak of war in September, and the consequent interruptions caused by military camps, etc., was chiefly responsible for a general lack of interest towards the close of the Session. Notwithstanding this, a successful Smoke Social was held at the Engineering School Hall in December. The thanks of the Section are due to Prof. O. F. Blakey, M.I.E.Aust., who made available the Engineering School.

The members of the Section take this opportunity to thank also those members of the Senior Division who gave up their time in the interests of the Management Committee.

C. D. GRIGG,
Hon. Secretary.

AUDITORS' REPORT.

26th January, 1940.

The Honorary Secretary,

The Institution of Engineers, Australia (Incorporated
by Royal Charter), Perth Division,
Perth.

Dear Sir,—

1. We have pleasure in reporting having completed the audit of the books and accounts of the Perth Division of The Institution for the year ended 31st December, 1939, subject to the following remarks. We append hereto the undermentioned statements:—

Balance Sheet as at 31st December, 1939.

Revenue Account for the year ended 31st December, 1939.

Schedule of Subscriptions in Arrears at 31st December, 1939.

Schedule of Subscriptions Paid in Advance at 31st December, 1939.

2. In accordance with the instruction issued by the Council of The Institution, only subscriptions (50%) actually collected during the year under review have been taken into account. Neither the whole nor any part of subscriptions in arrears at the balancing date have been brought into account, but the amount outstanding is shown as a Contingent Asset in a certificate on the Balance Sheet, and a schedule of these subscriptions is appended. There is another fee due by a member which was not paid by 31st December last and this is included in the certificate and particulars of it are attached.

3. The position in regard to Deferred Subscriptions did not change during the year.

4. We hold a certificate from the Commonwealth Bank of the amount of Inscribed Stock in the name of The Institution on 31st December, 1939.

5. Depreciation has been written off Furniture and Fittings and Library at a rate of not less than 10% per annum.

6. Subscriptions Paid in Advance prior to 31st December, 1939, are shown as a liability in the Balance Sheet, and a schedule of same is attached.

7. Accrued Interest on investments of Inscribed Stock has been brought into account at the balancing date.

8. The Revenue Account shows an excess of Expenditure over Income for the year of £6/1/1, and this has been deducted from the balance of Accumulated Funds. A refund of £7 has been received from the former landlord of part of the cost of a partition, which matter we referred to in our report for the previous year.

9. During the year a legacy was received from the Estate of the late Mr. M. J. Davis of £100 sterling, equal to £125/1/3 Australian currency. This amount has been added to Accumulated Funds. We understand that certain instruments for showing films for demonstration purposes are being purchased with this money and that a record of how the money is expended will be made in the books.

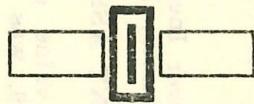
10. In conclusion, we have to state that subject to the comments contained in this report, and subject to the practice which has received your expressed approval, whereby certain items such as Telephone Charges, Interest on Loans, Deposits, etc. have been taken into account for a period of twelve months other than that covered by the Divisional financial year, the Balance Sheet, as appended hereto, is in our opinion, properly drawn up so as to exhibit the true and proper position of the Perth Division of the Institution as at 31st December, 1939, and contains all the particulars required by the Memorandum and Articles of the Institution and the Rules of the Perth Division.

11. We wish to record the satisfactory manner in which the Honorary Treasurer, Mr. A. G. Sloane, has continued to keep the books of the Division and presented same for Audit.

With compliments, we are,
Yours faithfully,

E. & R. STEPHEN HART,

Chartered Accountants (Aust.),
Auditors.



THE INSTITUTION OF ENGINEERS, AUSTRALIA (Incorporated by Royal Charter),
PERTH DIVISION.

BALANCE SHEET AS AT 31st DECEMBER, 1939.

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THE INSTITUTION OF ENGINEERS, AUSTRALIA (Incorporated by Royal Charter),
PERTH DIVISION.

REVENUE ACCOUNT FOR THE TWELVE MONTHS ENDED 31st DECEMBER, 1939.

	EXPENDITURE.			RECEIPTS.		
To Administration Expenses—				By Subscriptions Received, 50%—		
Salaries, etc.	£270	0	0	For Current Year	272	13
Rent	175	1	3	On Account of Arrears	41	19
Less Sub-tenants				Paid in Advance in Previous Year	5	11
						11
Office Cleaning and Lighting	94	18	9		320	4
Telephone Charges	52	9	9			7
Postage and Telegrams	12	5	11	" Interest Received—		
General Printing	22	2	6	Commonwealth Government Inscribed Stock	40	0
Audit Fees	52	6	7	Savings Bank Deposit	4	1
General Expenses	7	7	0			11
	15	11	4	" Grant from Headquarters	40	5
				" Refund Part Cost Removal to Present Premises	93	10
," Expenses of Meetings—	355	1	10	," Excess of Expenditure Over Income Transferred to Accumulated Funds		0
General Meetings	25	8	1		7	0
J. and S. Meetings	2	5	9		6	1
," Prize—						
J. and S. Section						
," Depreciation—						
Furniture and Fittings	56	17	5			
Library	9	7	7			
," Miscellaneous Charges—						
Cost Lease of Premises	10	18	0			
Supervising Examinations	2	2	0			

This is the Revenue Account for the Twelve Months ended 31st December, 1939, referred to in our report to the Division Committee under date 26th January, 1940.

A. GORDON SLOANE,
Hon. Treasurer,
JAMES B. JUKES,
Hon. Secretary,
26th January, 1940.

E. AND R. STEPHEN HART,
Chartered Accountants (Aust.),
Auditors.

£467 5 8

£467 5 8

THE MARCH DIVISION OF ENCLOSURES, A MAIL DIVISION, PAID ROYAL COUNTRY

RECEIVED ACCORDING TO THE LAW AT THE MARCH DIVISION, PAID ROYAL COUNTRY

TO PAYABLE ON PRESENTATION

TO PAYABLE ON PRESENTATION