



THE  
Institution of Engineers  
Australia  
PERTH DIVISION

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Annual Report  
for the  
*Twenty-third Session*  
1942

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GLEDDEN BUILDINGS,  
PERTH.







# The Institution of Engineers, Australia

(Incorporated by Royal Charter, 1938)

## PERTH DIVISION

### COMMITTEE REPORT FOR THE 1942-43 SESSION

The retiring Committee has pleasure in submitting its report for the 23rd Session of the Perth Division of The Institution.

The increased duties and responsibilities which war conditions have imposed on Engineers have made it difficult to maintain the usual activities of the Division, but while fewer general meetings were held, Committee work increased considerably.

The 22nd Annual General Meeting was held at Division Headquarters, Gledden Building, on 23rd March, 1942, at which the following members were declared elected for the 1942-43 Session:

Chairman ... .. Assoc. Prof. O. F. Blakey  
Vice-Chairman ... .. Mr. F. Mills  
Vice-Chairman ... .. Major F. M. Kenworthy  
Past Chairman ... .. Mr. E. H. Oldham  
Hon. Secretary ... .. Mr. J. B. Jukes  
Hon. Treasurer ... .. Mr. I. Davies  
Committee ... .. Messrs. N. Fernie, J. S. Foxall, Capt. E. W. C. Godfrey, Messrs. W. A. McCullough, H. Middleton, and J. W. Young.

Messrs. S. Johnson and E. A. Leahey were co-opted by the Committee at its first meeting on 7th April, 1942.

### COMMITTEE MEETINGS

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

Blakey, O. F. ... ..	10	*Kenworthy, F. M. ... ..	1
Davies, I. ... ..	10	Leahey, E. A. ... ..	6
Fernie, N. ... ..	5	McCullough, W. A. ... ..	11
Foxall, J. S. ... ..	7	Middleton, H. ... ..	9
*Godfrey, E. W. C. ... ..	1	†Mills, F. ... ..	—
Johnson, S. ... ..	10	Oldham, E. H. ... ..	9
Jukes, J. B. ... ..	11	Young, J. W. ... ..	8

\*Military duties prevented these members from attending meetings.

†Mr. Mills' duties have taken him out of the State during most of the Session.

### REPRESENTATION ON COUNCIL

The Councillors for the 1942-43 Session were: Assoc. Prof. O. F. Blakey, Messrs. E. H. Oldham, and J. W. Young, and these members have been re-elected for the 1943-44 Session.

Assoc. Prof. O. F. Blakey attended the 93rd Meeting of Council in Sydney on the 30th November, 1942.



## SCRUTINEERS

The Committee acknowledges with thanks the services of the following members who acted as Scrutineers for the Session: Messrs. A. L. Dent, J. D. Leach, and D. A. Ross.

## MEMBERSHIP

The change in the Division Membership for the twelve months ending 31-12-42 is shown in the following table:—

	M.	A.M.	A.	J.	St.	Total
At 31-12-41 .. .. .	28	161	1	32	56	278
At 31-12-42 .. .. .	26	166	1	27	58	278
	—	—	—	—	—	—
	—2	+5	..	—5	+2	..

The following members were elected during the year:—

### Assoc. Members

Larard, F. J.

Plues, E. C.

### Juniors

Cruikshank, A. W.

Quartermaine,

M. K.

Reid, C. B.

### Students

Brand, V. P.

Bridgwood, G. A.

Butcher, J. L.

Davies-Moore, D. P.

Edmondson, F.

Gammon, K. T.

Hondros, G.

Hulcup, E. C.

Massey, P. C.

Middleton-White,

K. C.

Pitsikas, L.

Telford, A. R.

Wood, W. W. P.

Grade Transfers during the year:—

### Jr. to A.M.

Button, R. G.

Cann, P. W.

Davenport, J.

Hamil, W. R.

Lampard, D. J.

McLaren, W. J. R.

O'Brien, C. P.

Thomas, J. C.

### St. to A.M.

Brady, E. F.

Fraser, D. H.

### St. to Jr.

Cook, R. W.

Hamil, W. R.

Hill, N. W. H.

Transfers to Other Divisions:—

### Assoc. Members

Fraser, D. H.

McCormack, J. A.

Nevile, R. L.

Pengilly, C. K.

### Juniors

Cook, R. W.

Shaw, F. S.

Walker, W. G.

### Students

Davies-Moore, D. P.

Farrow, C. P.

Henshilwood, L. S.

Leevers, J. H.

Robinson, R. G.

Rowbotham, H.

### Resignations

McCaul, C. A. . . . . A.M.

Sundercombe, N. W. . . . . A.M.

Tindale, E. . . . . M.

### Deaths

Law, G. . . . . A.M.

Williamson, A. F. . . . . M.



## THE YEAR'S WORK

The following General Meetings were held during the Session:—

Date	Paper or Address	Author	Att.
25-5-42	Chairman's Address, "Some Aspects of Water Supply Maintenance" . . . . .	E. H. Oldham	21
27-7-42	"Some Aspects of Engineering in Malaya" . . . . .	E. F. Brady	36
23-11-42	"High Temperature Measurement" . . . . .	F. E. Leahey	24

The average attendance at General Meetings was approximately 27.

A luncheon was held at the Palace Hotel on Monday, 7th December, 1942, when the Committee entertained Col. F. C. Field, and discussed with him the relations of the Institution and the newly formed Corps of Electrical and Mechanical Engineers, which he commands.

## FINANCE

The Auditor's Report, the Annual Balance Sheet and Revenue Account are presented with this Report. It is pleasing to note an excess of revenue over expenditure of £72/17/8.

## LIBRARY

The Library Sub-Committee were unable to procure any suitable reference books for the Library this Session but the binding of Journals has been kept up to date.

## ACTIVITIES CONNECTED WITH THE WAR

### Scientific Manpower (Engineering) Advisory Sub-Committee:

This Sub-Committee, which was formed on 2nd July, 1942, to advise the Manpower Authorities about the utilisation of trained Engineers, has been given considerable powers by the Director-General of Manpower, Mr. C. Wurth. The Sub-Committee has held eighteen meetings and considered approximately 68 applicants. Excellent liaison has been established with the Deputy Director of Manpower and with the R.A.E. and A.E.M.E. branches of the 3rd Aust. Army Corps.

**Army Inventions Directorate:** Since November, 1942, the Division's offices have conducted the W.A. Branch of the Army Inventions Directorate at the Institution Rooms. Eighty submissions from inventors have been dealt with.



## DIVISION MEMBERS WITH THE FORCES

The following list of members in the Forces includes only those members of whose enlistment the Hon. Secretary has been notified:—

Agnew, Capt. R. G.	Horton, Capt. R.
*Anderson, C. V.	Hudson, Lieut. K. F.
Ballantine, Capt. R. L.	Hulcup, A/Sgt. E.
Bennett, Capt. A.	Hunt, Lieut. H. E.
Benson, Lieut. W. D.	Jarvis, Major H. B.
Blackwood, Major G. W.	Klem, Lieut. C. T.
Blown, W. B.	*Lane, P/O E. H.
Bott, Lieut. K. G.	Letch, Ft/Lt L. A. C.
Brady, Capt. L. V.	Leyden, Capt. P. G.
Brisbane, Lieut. E. E.	Munro, Capt. D. C.
Bryant, Lieut. J. F. M.	Murray, F/O J. D.
Butcher, A/Sgt. J. L.	McRae, Capt. M. P.
Chippington, T. G.	Odlum, Capt. A. H. R.
Davenport, Capt. J.	Parker, Capt. J. E.
Dawson, Lieut. B. F.	Pennington, Sgt. R. E.
Dimond, Capt. C. M.	Pidgeon, Capt. J. A.
Dowson, Capt. J. S.	Pond, F/O A. C.
Drake-Brockman, Col. G.	Punch, Lieut. J. J. G.
Duncan, Capt. S.	Redpath, Major J. W.
Durack, Lieut. D. J.	Reid, Lieut. C. B.
Durrant, Major F. B.	Robertson, Major A. G.
Edmondson, Lieut. F.	Royce, L.A.C. A. H.
Fenton, A/Sgt. L.	Scott, Lieut. J. B.
Field, Col. C. R.	Shilkin, Capt. J.
Fisher, Lieut. A. A.	Shirley, Lieut. J. B.
Godfrey, Capt. E. W. C.	Sloane, Capt. A. G.
*Grigg, P/O C. D.	Steere, Lieut. E. K.
Haines, Lieut. A. A. S.	Stewart, Lieut. N. H.
Hamil, F/O W. R.	Stillman, Major G. H.
Harding, Capt. L. R.	Taylor, Lieut. P. W. (RANVR)
Herbert, Lieut. W. M.	Thomas, Eng. Lieut. (RANVR)
Hillman, Lieut. G. A. de C.	Treadrea, Lieut. F. T.
Hillman, Lieut. R. M.	Vincent, Capt. R. H.
Holly, Lieut. J.	Winzar, Capt. W. S.

\*Killed on Active Service

## JUNIORS' AND STUDENTS' SECTION

### Annual Report — 1942 Session

The Management Committee has pleasure in presenting the Annual Report of the Juniors' and Students' Section for the year ending 31st December, 1942.

At the 11th Annual General Meeting held on 12th July, 1942, the following officers were elected:

Chairman .. . . .	Mr. J. V. Kreuzspiegel
Vice-Chairman .. . . .	Mr. R. G. Button
Hon. Secretary .. . . .	Mr. D. B. Sugden
Committee .. . . .	Messrs. D. Davies-Moore, R. J. Ferres, B. A. Watson

Mr. R. G. Button resigned from the position of Vice-Chairman at the final meeting as he has now been transferred to Associate Membership. Mr. Davies-Moore resigned from the Committee at the same time, due to his departure to the Eastern States.



## PAPERS.

52nd General Meeting, 10th August, 1942: 11 members and visitors present. "Some Aspects of the Design of Cross Draught Gas Producers," D. B. Sugden.

53rd General Meeting, 14th September, 1942: 9 members present. "Television," Mr. J. V. Kreuzspiegel.

54th General Meeting, 19th October, 1942: 9 members present. "High Temperature Measurement," Mr. F. E. Leahey.

56th General Meeting, 14th December, 1942: 10 members and visitors present. "Remote Supervisory Control," Mr. R. A. J. Ferres.

During the year a visit was made to the Sewerage Disposal Works at West Subiaco.

The practice instituted last year of gathering at Paterson's Tea Rooms for dinner before each general meeting was continued this year with moderate success.

The 56th Meeting being the final meeting for the year, a special supper was arranged after the reading of Mr. Ferres' paper. The meeting was most enjoyable, but was somewhat curtailed by a failure in the electric power supply.

Members wish to thank Messrs. S. Johnson and E. H. Oldham of the Division Committee whose interest in the Section was greatly appreciated by the Management Committee.

D. B. SUGDEN,

Hon. Secretary.

## AUDITORS' REPORT.

The Honorary Secretary,

The Institution of Engineers, Australia

(Incorporated by Royal Charter), Perth Division,

Perth.

20th January, 1943.

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, 1942, subject to the following remarks. We append hereto the undermentioned statements:—

Balance Sheet as at 31st December, 1942.

Revenue Account for the year ended 31st December, 1942.

Schedule of Subscriptions in Arrears at 31st December, 1942.

Schedule of Subscriptions Paid in Advance at 31st December, 1942.

Schedule of Subscriptions in Suspense—War Service at 31st December, 1942.

2. In accordance with the instructions issued by the Council of the Institution only subscriptions (65%) 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.

3. Various remissions of subscriptions have been granted to members on War Service during the year, and we have seen that these were duly approved by your Committee and Headquarters.

4. We hold certificates from the Commonwealth Bank confirming the amounts shown as assets under the following headings in the Balance Sheet, as at 31st December, 1942:—

Commonwealth Inscribed Stock.

Commonwealth Bank—Current Account.

Commonwealth Bank—Savings Account.

5. Depreciation has been written off Furniture and Fittings and Library at a rate of not less than 10% per annum. The Committee resolved at its meeting on the 6th October, 1942, that the camera be re-valued, but that no depreciation be written off at present. It appears that this resolution was pursuant to the original intention that revaluation be made every two or three years. However, the value of the asset remains unaltered in the books at cost price, and we are informed that this was the final decision of the Committee. It is suggested firstly, that if upon revaluation, a normal reduction in value resulted the consequent adjustment would amount to the writing off of depreciation, although it would be debited to Accumulated Funds where the capital of the bequest lies, and secondly, that owing to the difficulties of the present time, a revaluation based on market values might result in a purely temporary increase in the value of the asset which should not in any case be brought into account.

In this connection, we would like to point out that the warrant for capitalising the cost and processing of films, is not that payments are at present made out of the legacy bequeathed by the late Mr. Davis, but that the films are an asset. In the course of time an extensive film library may be built up, in which case the cost of these films should be transferred into a new "Film Library Account" and, unless it is considered the films will not depreciate within any reasonable time, suitable depreciation provided.

6. Subscriptions paid in advance prior to 31st December, 1942, 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 Income over Expenditure for the year of £72/17/8 and this has been credited to Accumulated Funds, bringing the total of the latter account to £1987/2/7 at 31st December, 1942.

9. 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, has been adopted.



10. In conclusion, we have to state, that subject to the comments contained in this report we certify:—

- (a) We have obtained all the information and explanations we have required.
- (b) In our opinion the Balance Sheet referred to in this report is properly drawn up so as to exhibit a true and correct view of the state of The Institution's affairs, according to the best of our information and the explanations given to us and as shown by the books of The Institution.
- (c) In our opinion the records which The Institution is required to keep by law or by its Bye-laws have been properly kept.

11. We wish to record the satisfactory manner in which the books have been kept during the year and presented for audit by the Honorary Treasurer, Mr. I. Davies.

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, 1942

LIABILITIES			ASSETS		
	£	s. d.		£	s. d.
Sundry Creditors		1 1 6	Furniture and Fittings—		
Headquarters, I.E. Australia—			Balance at 31st December, 1941	282	19 1
Subscriptions, 35%	22	10 11	Less Depreciation	50	6 9
Entrance Fees	4	4 0			232 12 4
Transfer Fees	1	1 0			
Sale of Publications	3	0 6	Library—		
			Balance at 31st December, 1941	107	9 3
Subscriptions Paid in Advance	30	16 5	Additions for Year	1	13 9
Subscriptions in Suspense (War Service)	10	18 3			
Accumulated Funds—	7	7 0	Less Depreciation	109	3 0
Balance at 31st December, 1941	1,914	4 11		10	18 4
Add Excess Income over Expenditure	72	17 8	Davis Bequest Cinema Equipment—		
	1,987	2 7	Balance at 31st December, 1941	118	5 3
			Additions for Year	1	18 6
					120 3 9
			Sundry Debtors—		
			University of W.A.	18	17 5
			Tenants	37	16 3
			Accrued Interest	6	8 9
					63 2 5
			Investments—		
			Commonwealth Inscribed Stock—		
			1959	100	0 0
			1954	200	0 0
			1949	200	0 0
			1948	200	0 0
			1947	400	0 0
			1947	200	0 0
					1,300 0 0
			Cash at Bankers and on Hand—		
			Commonwealth Bank	157	16 5
			Commonwealth Savings Bank	58	5 5
			Cash on Hand	7	0 9
					223 2 7
					£2,037 5 9

Particulars of the total involved are given in the schedule appended hereto: 35% of the whole or any portion of such arrears if, and when collected, shall be due to Headquarters.

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

This is the BALANCE SHEET referred to in our report to the Division Committee under date 20th January, 1943.

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

20th January, 1943  
IDRIS DAVIES, Hon. Treasurer  
JAMES B. JUKES, Hon. Secretary.



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

## REVENUE ACCOUNT FOR THE TWELVE MONTHS ENDED 31st DECEMBER, 1942

EXPENDITURE				RECEIPTS			
	£	s.	d.		£	s.	d.
To Administration Expenses—				By Subscriptions received, 65%—			
Salaries, etc. . . . .	98	0	0	For Current Year . . . . .	312	8	5
Rent . . . . .				On Account of Arrears . . . . .	56	8	1
Less Sub-tenants . . . . .				Paid in Advance in previous years . . . . .	6	13	1
	54	2	6				375 9 7
Office Cleaning and Lighting . . . . .	51	5	0	„ Interest received—			
Telephone Charges . . . . .	8	9	0	Commonwealth Bank Inscribed Stock ..	42	19	5
Postages and Telegrams . . . . .	21	13	4	Savings Bank Deposit . . . . .	1	0	11
General Printing . . . . .	15	6	4				
Audit Fees . . . . .	10	10	0	„ Miscellaneous Revenue . . . . .			
Insurance . . . . .	7	4	1				44 0 4
General Expenses . . . . .	6	15	1				15 0
</							



