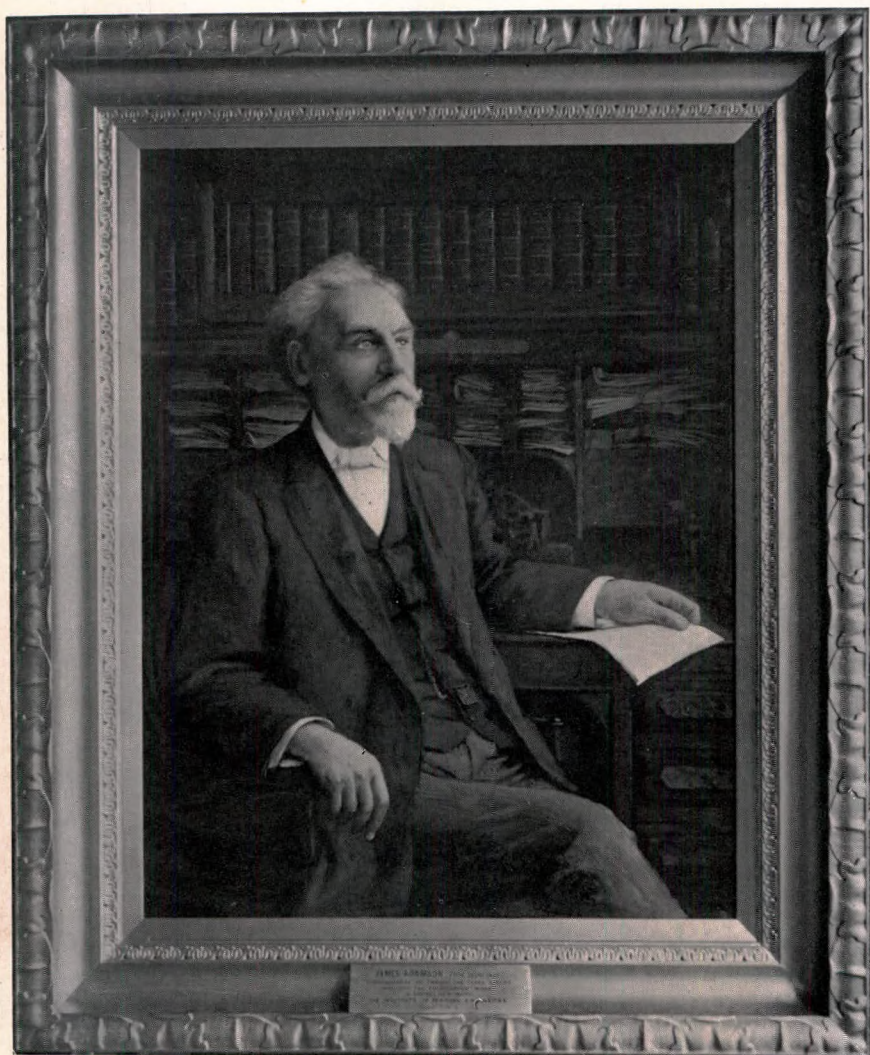






Painting by WILLIAM EADIE, Esq.

Photo by Messrs. T. C. TURNER & Co

JAMES ADAMSON (Hon. Secretary).
 Commemorative of Twenty-one Years' Service,
 including the Foundation Work
 in connection with
 The Institute of Marine Engineers.
 Session 1909-1910.

(Reproduction of photograph of oil painting unveiled on the 18th March).

INSTITUTE OF MARINE ENGINEERS

INCORPORATED

SESSION



1909-1910

President: JAMES DIXON, Esq. (died July, 1909).

Acting President for remainder of Session: JAMES DENNY, Esq.

Twenty-first Annual Volume

COMPRISING THE

PAPERS READ

AND DISCUSSIONS HELD DURING THE SESSION

ANNUAL REPORTS, FINANCIAL STATEMENT

Additions to Library and Property

LIST OF MEMBERS

INSTITUTE OF MARINE ENGINEERS

INCORPORATED

SESSION



1909-1910

Hon. Treasurer : A. H. MATHER. *Hon. Secretary :* JAS. ADAMSON.

Members of Council :—

GEO. ADAMS.
K. C. BALES.
A. E. BATTLE.
P. T. CAMPBELL.

JOHN CLARK.
J. E. ELMSLIE.
D. HULME.
J. LANG, R.N.R.

JOHN McLAREN.
J. F. REDMAN.
J. H. SILLEY.
W. I. TAYLOR.

J. T. MILTON—*Chairman.*

Hon. Minute Secretary : J. G. HAWTHORN.

Hon. Financial Secretary : E. W. ROSS.

Conveners of Committees :—

GEO. ADAMS, Press cuttings.
JAS. ADAMSON, Awards.
A. E. BATTLE, Papers.
J. E. ELMSLIE, Issue of Transactions.
D. HULME, Reading Room.
J. T. MILTON, City Premises.

A. H. MATHER, } Recreation.
J. McLAREN, }
J. H. SILLEY, Property.
J. F. REDMAN, Library.
W. I. TAYLOR, Annual Dinner.

J. G. HAWTHORN and JOHN LANG—*Joint Conveners, Junior Section.*

J. CLARK and K. C. BALES—*Joint Conveners, Experimental Department.*

GEORGE SHEARER—*Representative on Advisory Committee, Board of Trade.*

Vice-Presidents :—

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D. K. BLAIR (New Zealand).
A. BOYLE (London).
G. W. BUCKWELL (Barrow).
P. T. CAIRD (Greenock).
F. COOPER, R.N.R. (Birmingham).
W. D. CRUICKSHANK (Sydney).
H. DAYER (Dublin).
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Prof. A. C. ELLIOTT, B.Sc. (Cardiff).
J. D. FRASER (Karachi).
Sir A. S. HASLAM (Derby).
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W. LAWRIE (London).
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F. P. WALLAU (Southampton).
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CHAS. WILLIAMS (Bristol).
W. G. WINTERBURN (Vancouver, B.C.)

INSTITUTE OF MARINE ENGINEERS

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SESSION



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List of Papers Read and Lectures Delivered

DATE.	TITLE.	NO.	AUTHOR.
1909.			
Feb. 1.	Smoke Prevention and Fuel Economics	CLII	Mr. J. R. M. FITCH.
Feb. 15.	Some Details of a Cargo Steamer	CLIV	Mr. W. VEYSEY LANG.
Mar. 1.	Efficient Circulation of Water in Steam Boilers	CLV	Mr. ARTHUR ROSS.
Mar. 8.	The Application of Alternating Currents of Electricity to Modern Steamship Requirements . . .	CLIII	Mr. JOHN McLAREN.
Mar. 22.	The Characteristics of Copper under Various Conditions	LECTURE	Mr. G. W. HANDSCOMB.
July 24.	Refrigerating Installations .	CLVI	Mr. ROBT. BALFOUR.
Sept. 4.	The Extended Uses of Electricity on Board Ship . . .	CLVII	Mr. JOHN McLAREN.
Sept. 4.	The Treatment of Marine Boilers on Long Voyages .	CLVIII	Mr. H. RUCK-KEENE.
July 8.	The Turbine	PRIZE ESSAY	Mr. J. S. GANDER.
July 8.	Feed Heating	PRIZE ESSAY	Mr. W. W. ADAMSON.
July 8.	The Functions of the Air and Circulating Pumps .	PRIZE ESSAY	Mr. WALTER SMITH.
Sept. 27.	Hydraulic Cargo Gear for Passenger Ships	CLIX	Mr. A. M. McALISTER.
Sept. 27.	Water Hammer	CLX	Mr. BISHOP N. KING.
Nov. 1.	Experiences with Boiler Scale	CLXIII	Mr. WM. HENDERSON.
Nov. 15.	Marine Engines and Superheated Steam	CLXI	Mr. A. F. WHITE.
Nov. 22.	Notes on Boiler Covering .	LECTURE	Mr. A. P. STROHMENGER.
Dec. 6.	The Engine Room Telegraph	CLXII	Mr. J. M. NEWALL.
1910			
Jan. 17.	Cylinder Losses and the Adiabatic Expansion of Steam with and without Superheat	CLXIV	Mr. J. CLARK.
Jan. 31.	The Care of Ships' Electrical Installations	CLXV	Mr. T. R. STUART.

INSTITUTE OF MARINE ENGINEERS
INCORPORATED

SESSION



1909-1910

REPORT OF THE PROCEEDINGS

AT THE

ANNUAL MEETING

HELD AT

58, ROMFORD ROAD, STRATFORD, E.,

ON FRIDAY, MARCH 18TH, 1910.

CHAIRMAN:

JAMES DENNY, Esq. (ACTING PRESIDENT).

Programme of the Twenty-first Annual Meeting

ON FRIDAY, MARCH 18, 1910.

HELD AT

58, ROMFORD ROAD, STRATFORD, E.

Chairman: JAMES DENNY, Esq.

- | | |
|---|---|
| 7.0. The CHAIRMAN. | 8.40. Vote of thanks to Office Bearers and Members of Council. |
| 7.8. Appointment of Scrutineers.
Proposer, Mr. F. M. TIMPSON (Member).
Seconder, Mr. R. H. DALTON (Member). | Proposer, Mr. W. McLAREN (Member).
Seconder, Mr. A. RITCHIE (Member). |
| 7.10. The Annual Report.
The HON. SECRETARY. | 8.50. Vote of thanks to and Appointment of Hon. Auditors (Messrs. J. Clark and A. Robertson).
Proposer, Mr. GEO. ADAMS (Member of Council).
Seconder, Mr. D. HULME (Member of Council). |
| 7.25. The Financial Statement.
The HON. TREASURER. | 9.0. Vote of thanks to and Appointment of Hon. Solicitor (Mr. W. ARCHER).
Proposer, Mr. A. H. MATHER (Hon. Treasurer).
Seconder, Mr. E. W. ROSS (Hon. Finan. Secretary). |
| 7.40. Adoption of Reports.
Proposer, Mr. ROBT. BALFOUR (Member).
Seconder, Mr. JAS. TURNER (Member). | 9.10. Recommendations and Suggestions from Members. |
| 8.0. Adoption of Alterations to By-laws.
Proposer, Mr. J. T. MILTON (Chairman of Council).
Seconder, Mr. JOSEPH HALLETT (Member). | 9.35. Report of Scrutineers.
Messrs. P. SMITH, R.N.R. and C. M. B. DYER. |
| 8.30. Vote of thanks to Mr. Denny for acting as President during the vacancy.
Proposer, Mr. JOHN PRESTON (Member).
Seconder, Mr. J. CLARK (Member). | 9.45. Vote of thanks to Chairman.
Proposer, Mr. N. K. McLEAN (Member).
Seconder, Mr. A. E. BATTLE (Member of Council). |