

INSTITUTE OF MARINE ENGINEERS
INCORPORATED

SESSION



1907-1908

President: JAS. KNOTT, Esq., J.P.

REPORT OF THE PROCEEDINGS

AT THE

ANNUAL MEETING

HELD AT

58, ROMFORD ROAD, STRATFORD

ON FRIDAY, MARCH 20TH, 1908

CHAIRMAN :

MR. ALEXANDER BOYLE (Vice-President).

Programme of the Nineteenth Annual Meeting

ON FRIDAY, MARCH 20th, 1908,

HELD AT

58, ROMFORD ROAD, STRATFORD, E.

Chairman: MR. ALEXANDER BOYLE (VICE-PRESIDENT).

- 7.30. The CHAIRMAN.
- 7.35. Appointment of Scrutineers.
Proposer, Mr. JAS. B. ROBSON
(Assoc. Mem.).
Second, Mr. WM. BRITTON
(Assoc. Mem.).
- 7.40. The Annual Report.
The HON. SECRETARY.
- 7.55. The Financial Statement.
The HON. TREASURER.
- 8.10. Adoption of Reports.
Proposer, Mr. JOHN CLARK
(Member).
Second, Mr. G. W. NEWALL
(Member).
- 8.25. Vote of Thanks to retiring
President.
Proposer, Mr. A. BOYLE (Vice-
President).
Second, Mr. W. C. ROBERTS,
R.N.R (Vice-President).
- 8.40. Recommendations from Mem-
bers.
- 9.15. Vote of Thanks to Office
Bearers and Members of
Council.
Proposer, Mr. J. THOM (Member).
Second, Mr. K. C. BALES
(Member).
Response, the HON. SECRETARY.
- 9.30. Report of Scrutineers.
Messrs. P. SMITH, R.N.R. and
F. M. TIMPSON.
- 9.40. Vote of Thanks to Scrutineers.
Proposer, Mr. W. E. FARENDEN
(Associate).
Second, Mr. JOHN McLAREN
(Member of Council).
- 9.45. Vote of Thanks to and Ap-
pointment of the Hon.
Auditors, Messrs. J. CLARK
and A. Robertson.
Proposer, Mr. E. W. ROSS (Hon.
Fin. Secy.).
Second, Mr. J. G. HAWTHORN
(Hon. Min. Secy.).
- 10.0. Vote of Thanks to the Chair-
man.
Proposer, Mr. T. F. AUKLAND
(Companion).
Second, Mr. A. SHARP (Mem-
ber).

Minutes of Proceedings
AT THE
Annual General Meeting

HELD IN THE
INSTITUTE PREMISES, 58, ROMFORD ROAD, E.

ON FRIDAY, MARCH 20th, 1908

CHAIRMAN: MR. ALEXANDER BOYLE (VICE-PRESIDENT)

THE Nineteenth Annual General Meeting of the Institute of Marine Engineers was held at 58, Romford Road, Stratford, E., on Friday, March 20, 1908.

The Chairman, in opening the meeting, said that it was usual at these annual gatherings to take stock of the condition of affairs in connexion with the Institute, financially and otherwise. He called attention to the opportunity to be afforded at a later stage of the proceedings for members to give recommendations or suggestions with the view of promoting the advancement of the Institute, which would be very carefully considered by the Members of Council.

Mr. Jas. B. Robson proposed and Mr. W. Britton seconded the appointment of Messrs. P. Smith, R.N.R., and F. M. Timpson as Scrutineers. On the motion being put to the meeting these gentlemen were unanimously elected and retired to carry out the duties and report the result during the course of the evening.

The Honorary Secretary was then called upon to read the Annual Report. Previous to doing so he referred to other annual meetings which were being held the same evening and in which members were interested, especially that of the London-Dumbartonshire Association. In view of the President-Elect being so closely connected with Dumbarton, he proposed that a telegram of greeting should be sent from this meeting. This was agreed to and the message was despatched.

ANNUAL REPORT FOR YEAR 1907-8

THE presentation of the Nineteenth Annual Report reminds us that the Institute has passed that stage of its life which betokens—in respect to age—entrance into greater maturity, and it is a matter for congratulation that at such a period the year's work, closed on January 31, 1908, has proved full of elements which show that energy and thrift have been in combination to produce satisfactory results. We have to report the carrying out of a full programme, an increase of members, and a financial balance with something carried to the capital account as a reserve, which may be utilized later on for a building fund or otherwise, as the future may aid in determining.

While the membership has been increased by the addition of new members, and by the rejoining of old members who had lapsed and whom we were pleased to welcome back, it is to be regretted that there are still many who have got out of touch by changing their addresses and omitting to give notification thereof. Several names have thus been removed from the roll meantime, but such may be reinstated in the event of communication being restored: the assistance of members is invited towards such a consummation.

The removal also of thirteen of our members by death has to be recorded with regret and with renewed expressions of sympathy towards the relatives and friends of the departed. Several well-known prominent names will be found in the list which is as follows:—

T. R. BELL (Member) was elected a member in August, 1896. He served his time with the North London Railway Co. at Bow. He joined the Shell Transport & Trading Co.'s fleet in June, 1892, as third engineer, and remained with that Company till December, 1906, when all the vessels owned by the Shell Co. were transferred to the Anglo-Saxon Petroleum Co. Mr. Bell was at that time chief engineer of the ss. *Silverlip*, and lost his life on the occasion of an explosion on board that steamer in the Bay of Biscay on May 1, 1907. He was promoted to chief engineer in 1895, and occupied this position

on various of the Company's steamers for a period of twelve years. He was much respected, and his services were highly appreciated by the Company he served.

H. BERTRAM (Member), who died on December 6, 1907, was elected a member in February, 1897. His apprenticeship was served with Messrs. R. Stephenson & Co., Newcastle-on-Tyne, and he was afterwards with Messrs. Sir W. G. Armstrong, Whitworth & Co., Ltd., Elswick Shipyard, for some time acting as guarantee engineer on various cruisers built by them. He was decorated by the Sultan with the 4th Order of the Medjidieh for bravery in the engine-room. He was employed latterly as engineer to Messrs. E. H. Cook & Co., of Bow, which position he left to take up an appointment in Para, North Brazil, as resident engineer on dock works under construction by Messrs. S. Pearson & Son, Ltd., and died of yellow fever after being there only a few weeks. Mr. Bertram served on the Council as Hon. Minute Secretary, and was a popular member, ever ready to lend a helping hand in the work or to assist in any way. It was greatly due to his initiative that the monthly concerts were started.

JAS. S. BOND (Member) was elected a member in 1892. He was born at Dowlais in 1866 and served his apprenticeship with Messrs. Keeney & Marshall and Messrs. R. & W. Hawthorn Leslie & Co., Ltd., both of Newcastle-on-Tyne. In 1887 he joined Messrs. W. Milburn & Sons, whom he served for many years and afterwards entered the service of Messrs. Elder, Dempster & Co. In May, 1905, while in the ss. *Benguela*, he was shipwrecked off Manacraw, West Coast of Africa. All were saved, but the ship became a total wreck and the crew were obliged to stay at that place until one of the Company's ships came to their rescue. It is supposed that while there he must have partaken of some poisonous food or water, as from that time his health began to fail and he died on December 26, 1906.

W. BROCK (Vice-President), who died on April 26, 1907, was elected a member in November, 1890. He commenced work with Messrs. Robert Napier & Son, and in 1871 joined the late Peter Denny, LL.D., in the firm of Messrs. Denny & Co., afterwards becoming a partner in the shipyard firm, Messrs. Wm. Denny & Bros. He had a large share in the

advancement of the high pressure reciprocating engine, and was also largely instrumental in introducing the turbine for marine work, as with him rested to a great extent the decision which resulted in the *King Edward* being placed as the pioneer steamer running on the Clyde to prove the commercial success of turbine machinery. His interest was not confined entirely to the inside of the works ; his benefactions to the funds of the local hospital at Dumbarton and to the hospitals of Glasgow show that his sympathy was wide and that he was mindful of the claims of a suffering humanity. He was a subscriber to the fund raised for the purpose of purchasing the present premises of the Institute. The early death of his son Henry in February, 1906, was a very great blow to him.

WM. CALLAN (Member), who died at Nottingham on June 22, 1906, was elected a member in June, 1893. Born at Hulme in 1860, he served his apprenticeship with Messrs. Manlove, Alliott & Co., of Nottingham, and from there went to Messrs. The Haslam Foundry & Engineering Co., Ltd., Derby. In 1886 the River Plate Fresh Meat Co., Ltd., appointed him their superintendent engineer, and it was for this Company that the first successful consignment of chilled beef was brought over from the River Plate under Mr. Callan's personal supervision.

E. GEARING (Member), who died on February 8, 1907, was elected a member in September, 1893. He served his apprenticeship with Messrs. A. & W. Walker, Donnington, Shropshire, and received his early training with the Union SS. Co. at Southampton. He was afterwards Works Manager with Messrs. J. & G. Thompson, Clydebank Shipyard, and in this capacity superintended the building of the ss. *City of New York*. He went to the Leeds Forge Co., Ltd., in March, 1892, as engineer and commercial manager, and subsequently became managing director of the Company. He was popular with the employés at the Leeds Forge from the highest to the lowest. In recognition of valuable services in matters connected with the Admiralty he was made Chief Engineer Officer of the Royal Navy Reserve.

J. MACFARLANE GRAY (Vice-President) was one of the early members of the Institute and a signatory of the Articles of

Association. He served his apprenticeship with Messrs. Slight of Leith, after which he served on the Clyde with Messrs. Blackwood & Gordon of Greenock, and on the Mersey with Messrs. George Forrester & Co. of Liverpool. When in Liverpool he designed the steam steering-gear for the *Great Eastern*. He joined the Board of Trade as surveyor in 1869, was appointed examiner of engineers, and after serving about twenty-five years in that capacity, retired in 1897. He died at Edinburgh on January 14, 1908. (See March, 1908, issue, for portrait and further notice).

J. D. IMRAY (Member), who was elected a member in November, 1902, died at Algiers on March 7, 1907. The body was brought home and interred at Tomnahurich Cemetery, Inverness. He was born on December 21, 1871, at Strathglass, Invernesshire, and served his apprenticeship of six years with Messrs. Hall, Russell & Co. of Aberdeen. He joined the British India S.N. Co. in October, 1893, for service on the coast, and was transferred to the home line in February, 1899, when he joined the ss. *Mombassa* as third engineer. He was promoted to second in 1901, and held this position till February 27th, 1907, when he went into hospital in Algiers and died there of pneumonia. He was highly esteemed by the chief engineer under whom he served in the *Mombassa* from 1899 till his last illness, and was respected for his attention to duty by all who knew him.

J. B. JOHNSTON (Member), who died on March 1, 1907, was elected a member in August, 1893. He served his apprenticeship with Messrs. A. Campbell & Son, Glasgow, and was afterwards employed with Messrs. J. & G. Thomson of Glasgow. Subsequently he was employed in connexion with a firm of manufacturers of engineers' stores.

The Rt. Hon. LORD KELVIN (Past President), who died on December 17, 1907, was elected a member in June, 1892. Born in 1824 at Belfast, William Thomson matriculated at Glasgow in his tenth year, and at twenty-two was appointed professor. He achieved world-wide fame in the region of pure science, and was equally successful in the application of his knowledge of physics to practical uses. Among his numerous inventions, those by which he will be chiefly remembered by the seafaring

community are his patent ship's compass and sea-sounding apparatus, now universally adopted. He was President of the Institute during session 1892-3.

J. MACLACHLAN (Member), who died in April, 1906, was elected a member in September, 1904. He served his apprenticeship with the Fairfield Shipbuilding & Engineering Co., Govan, and his sea service extended from February, 1887, to April, 1904, three and a half years of which was spent in the service of the Indo-China S.N. Co. At the time of his death he was an engineer tutor, also secretary and manager of the Institute of Engineers & Shipbuilders, Hong-Kong.

HENRY M. RAIT (Vice-President), who died May 2, 1907, was elected a member in December, 1889. He served his apprenticeship with Messrs. James Aitken & Co., Cranstonhill Foundry, Glasgow, after which he was sent out to Russia by the firm. On returning he was employed as chief draughtsman until he joined the Greenock Foundry Co. He was afterwards appointed superintendent engineer with Messrs. Valery, Freres et Fils at Marseilles, where he remained four years. On his return to this country he became superintendent engineer of the Inman SS. Co., Liverpool, and subsequently became managing partner in the Greenock Foundry Co. In 1871 he became senior partner in the firm of Rait & Lindsay, successors to Jas. Aitken & Co., until January, 1878, since when he had been senior partner of the firm of Rait & Gardiner, Engineers and Dry-dock Owners of 155, Fenchurch Street, E.C., with docks at Millwall, Royal Albert Docks, Tilbury and Cubitt Town. He was educated at the High School, Glasgow, Neuwied-on-the-Rhine, and Glasgow University, where he studied mathematics under Professor Blackburn and engineering under Professor Macquorne Rankine.

E. J. TAYLOR (Assoc. Member), who died on April 10, 1906, at Tangier, was elected an associate member in January, 1893. He served his apprenticeship at the Glengall Ironworks, Millwall, went to Tangier as engineer of a steam launch belonging to the Moorish Government, and at the time of his death was engineer at the Government Mills, Tangier, North Africa.

D. G. WATSON (Member), who died on November 12, 1905,

notice of which was omitted previously and the name not removed from the roll, was elected a member in December, 1899. He served his apprenticeship with Mr. J. F. Low, Monifieth Foundry, Dundee, and was for some time an engineer in the Allan Line. He entered the service of the Board of Trade as a surveyor in 1881, was for many years in the Consultative Office of that department, and had been appointed Chief Examiner of Engineers only a few days before his sudden death. He was a gentleman of wide attainment in engineering, and held in high esteem by all who knew him.

The membership roll at the close of the financial year ending January 31, 1908, stands as undernoted :—

GRADE	1907. Roll Jan. 31	Lapsed.	Trans. from.	Trans. to.	Died.	Re- signed.	Elected.	1908. Roll Jan. 31.
Past Presidents (Non-Members)	7	—	—	—	—	—	1	8
Hon. Vice-Presidents	—	—	—	—	—	—	1	1
Hon. Members	1	—	—	—	—	—	—	1
Members	767	23	—	8	12	6	47	781
Companions	67	—	—	—	—	9	4	62
Associate Members . .	51	4	1	5	1	1	12	61
Associates	45	1	4	2	—	—	6	48
Graduates	22	—	3	1	—	1	6	25
Probationary	14	—	8	—	—	—	17	23
TOTALS	974	28	16	16	13	16	95	1,010

The President delivered an address at the Institute premises on Monday, October 7, and on that occasion presented the Denny gold medal awarded for the paper "The Advantages of a Technical Society," read by the Hon. Secretary at the autumn reopening of the previous session. The interest taken in the Institute by the President has been very great and the results of the session have been very gratifying to him as well as to the Council. At the close of his address he said : "It has been a very interesting function to-night to me, more in the nature of a revelation, and I shall always take the greatest, most earnest and heartiest interest in this Institute, not only for my term of office but as long as I live."

The Engineering Exhibition, held at Olympia during part of September and October, 1907, was visited on Saturday,

September 28, when two papers were read on "A New Method of Repairing Boilers," and "Ventilation, Heating and Berthing," by Messrs. H. Ruck-Keene (Member) and A. E. Battle (Member of Council) respectively. A prize was offered for the best essay or essays by Graduates on a visit to the Exhibition again this year, on the proposal of Mr. A. E. Battle, who provided the amount. The prize was awarded to Mr. W. Smith, his being the only essay sent in: an award of books and instruments was given to him.

A special room has been set apart, furnished and provided with magazines and papers, for the use of the junior section. Lectures have been delivered on Monday evenings on the following subjects: "Boiler Construction" and "Engine Construction," by Mr. J. G. Hawthorn; "Electricity" by Mr. A. E. Battle; "Self-Help and Character" and "Something about Lloyds," by Mr. T. F. Aukland; "External Perception" and "The Doctrine of Descartes," by the Hon. Secretary; and "Roller Bearings," by Mr. G. B. Woodruff. A series of lectures was to have been given by the late Mr. J. Macfarlane Gray, but illness prevented; two of the lectures have, however, been printed in the Transactions and will be read with deep interest.

During the session eight papers, in addition to the two read at the Engineering Exhibition, have been read and discussed. The synopsis of meetings which have been held throughout the year serves to show the subjects dealt with under the various dates.

Visits have been paid on Saturday afternoons to the following named works: Messrs. J. Kirkaldy & Sons' Testing Works, Southwark; Vickers, Sons & Maxim's Works, Erith; the London Hospital; the Great Eastern Railway Works, Stratford; A. & G. Mumford's Works, Colchester.

Friday evening once a month has been devoted to social recreation; five concerts have been given and arranged by the following Members of Council, kindly assisted by the ladies who provided the refreshments: Messrs. F. Cooper, D. Hulme, Jas. Adamson, Geo. Adams, and J. F. Redman. These concerts have been largely attended and greatly appreciated.

A social At Home with dancing was held on December 31, on the invitation of Messrs. Hawthorn and J. Lang (Conveners of the Junior Section), when the limits of the accommodation were tested to the full. The premises were decorated for the

occasion, and the successful nature of the gathering was conspicuous from both external and internal evidences.

The fuel testing has not been carried on to the same extent as in former sessions, but the Convener of the Experimental Committee is always ready to make arrangements for a test when desired.

Owing to an appointment being offered to Mr. H. Bertram while serving on the Council as Hon. Minute Secretary, he resigned in order to proceed to South America. Previous to leaving, a few friends invited Mr. and Mrs. Bertram to supper, and presented to him a small souvenir in memory of our association in the work of the Institute. Unhappily, Mr. Bertram died a few weeks after he arrived in Brazil. Mr. J. G. Hawthorn was appointed Hon. Minute Secretary instead of Mr. Bertram.

The Annual Dinner was held in the King's Hall, Holborn Restaurant, on October 30. Mr. J. Dixon—Chairman of Lloyd's Registry of Shipping—kindly proposed in the course of his speech that a bursary for Marine Engineering should be founded, towards establishing which he would assist. This has been receiving the attention of the Council, and a plan is in course of preparation to carry the proposal into effect.

The *Conversazione* held in the Holborn Restaurant on Friday, January 24, was eminently successful, both in respect to the concert and the dance. The singing and recitative were good. The dancing in the King's Hall was kept up with great fervour till 3 a.m., and simultaneously with the dancing, selections of vocal and instrumental music in the Throne Room afforded another pleasant means of recreation. The function proved very enjoyable to all who were present to witness the brilliant assembly.

The Tennis Club was carried on during the summer, and the court was extended to accommodate more players than formerly. The season was wound up by a social gathering on September 27. The membership was about 36.

In order to bring the Institute to the notice of engineers, a circular was prepared and issued to the various steamers on entering port; but this has not been productive of much gain in adding to the membership. The attention of members is called to this circular and to the invitation cards, also to cards which may be obtained on application for the purpose of introducing friends, who are not members, to the privileges of the Reading Room and the various meetings.

At the Sanitary Congress held in Dublin during the month of July, 1907, the Institute was represented by Mr. Jas. Girvin (Member). A report of the Congress has been printed in the Transactions.

The property has been overhauled, cleaned and painted where necessary during the year, and a frame with the name of the Institute placed over the porch fitted with electric light, to indicate the premises more clearly to strangers.

The Library has been added to and increased by several volumes, and the Reading Room is well supplied with magazines, journals and papers for the benefit of visitors. The scrap-books for press cuttings or notes of occurrences and events of interest, or for reference, are commended to all members, so that contributions to these books may be forwarded to the Convener. The issue of the Transactions in monthly parts regularly has been hailed as an improvement, especially by members abroad, and the letters received expressing this view have been welcome as tokens of appreciation.

Our Transactions are exchanged with several kindred societies at home and abroad, so that our Reading Room and Library are supplied by contributions from many sources, thus adding to their value to visiting members.

Conferences are being arranged to be held at St. Petersburg on "Navigation" at the end of May, and at Paris on "The Refrigerating Industries" in September. We have been invited to co-operate and appoint representatives to attend at these Conferences; with these invitations we hope to be able to comply.

Arrangements are being made for a course of summer Saturday afternoon visits to works. It is proposed to arrange two visits to the Exhibition now in course of erection at Shepherd's Bush, when lectures and papers will be delivered: the announcements in connexion with these visits will be made as soon as the arrangements are completed.

A Municipal Exhibition is to be held in the Agricultural Hall, Islington, in the course of a few months, and a proposal has been made to have a marine section dealing specially with heating, sanitation and ventilation; should this proposal be carried out, a paper on the subject will probably be given by a member of the Institute and the date duly intimated.

In the course of the year it has been considered that the advisability and wisdom of having premises located within

the City of London boundary should be discussed at the Annual Meeting, so that the office bearers and Council might know the desires of the members on the subject in order to guide them in any future possible negotiations. There are advantages and disadvantages in respect to the location of the premises of the Institute: the main advantage of any location is that it be convenient for our seagoing members.

A new edition of the Bye-Laws requires to be printed, and all the alterations which have been made from time to time will be embodied in it under the respective clauses, to facilitate reference and for accuracy up to date.

Bound Volumes of the Transactions have been disposed of during the year. Copies were presented to the various firms to whose courtesy we were indebted for permission to visit works during the summer.

It is suggested that a slight alteration should be made as to the retirement of Members of Council, under which five in place of eight should retire annually.

The Council Meetings were formerly held on Friday evenings, but as it was found more convenient for the majority to attend on the first and third Thursdays of each month the evening of meeting was altered, in view of the importance of a greater regularity of attendance for the majority. Unfortunately, as Mr. Belloch could not attend with any regularity, and as Thursday evenings were even more inconvenient for him to attend, he resigned his seat. We are indebted to Mr. Belloch for the assistance rendered to the Institute by his service on the Council.

Mr. Geo. Shearer has been serving on the Advisory Committee as a Representative from the Institute to the Board of Trade during the year.

In closing this report it is urged that every member should do his utmost to advance the aims and objects of the Institute.

On behalf of the Council,

JAS. ADAMSON,
Hon. Secretary.

REVENUE

Dr.

From 1st February, 1907, to

To General Expenses :		£	s.	d.	£	s.	d.
Bank Charges .. .. .	.. .. .	0	9	3			
Postage, etc. .. .. .	.. .. .	27	15	0			
Telegraphic Address .. .. .	.. .. .	1	1	0			
Inscription on Medal .. .. .	.. .. .	0	5	0			
Engrossing Certificates .. .. .	.. .. .	2	2	0			
Stationery and General Printing .. .. .	.. .. .	23	12	7			
Assistant Secretary's Salary .. .. .	.. .. .	137	10	0			
Chartered Accountants' Fees .. .. .	.. .. .	10	10	0			
Telephone .. .. .	.. .. .	6	10	0			
Sanitary Congress Expenses .. .. .	.. .. .	1	8	8			
Circulars .. .. .	.. .. .	10	11	10			
					221	15	4
„ Rates, Taxes, etc. :							
Rates and Taxes .. .. .	.. .. .	34	6	3			
Gas and Electricity .. .. .	.. .. .	15	1	6			
Water .. .. .	.. .. .	4	16	0			
					54	3	9
„ House Account :							
Caretaker's Wages .. .. .	.. .. .	74	18	0			
Sundries .. .. .	.. .. .	5	1	11			
Coals .. .. .	.. .. .	6	10	0			
					86	9	11
„ Insurances .. .. .	.. .. .				3	19	0
„ Repairs .. .. .	.. .. .				52	15	4
„ Depreciation :							
On Additions and Alterations .. .. .	.. .. .	26	3	9			
„ Furniture at Institute .. .. .	.. .. .	16	11	6			
					42	15	3
„ Reading Room Expenses .. .. .	.. .. .				15	3	9
„ Papers and Discussions :							
Printing and Postages .. .. .	.. .. .	354	2	4			
Reporting .. .. .	.. .. .	4	2	6			
					358	4	10
„ Interest on Denny Gold Medal Fund .. .. .	.. .. .				10	0	0
„ Interest on Stephen's Legacy Fund .. .. .	.. .. .				2	10	0
„ Recreation Section :							
Cinderella .. .. .	.. .. .	12	9	3			
Expenses, Dinner .. .. .	.. .. .	114	9	3			
Conversazione .. .. .	.. .. .	78	14	7			
					205	13	1
„ Annual Meeting Expenses .. .. .	.. .. .				16	0	2
„ Transaction Section : .. .. .	.. .. .				20	14	5
„ Experimental Department Expenses .. .. .	.. .. .				0	6	10
„ Legal Expenses .. .. .	.. .. .				7	15	10
„ Tennis Club Expenses .. .. .	.. .. .				17	7	6
„ Balance .. .. .	.. .. .				139	13	8
					£1,255	8	8

ACCOUNT.

31st January, 1908.

Cr.

By Subscriptions :						£	s.	d.	£	s.	d.
Members	..	..	..	..	..	855	13	3			
Associate Members	..	..	..	..	..	35	6	6			
Associates	..	..	..	..	..	24	0	0			
Companions	..	..	..	..	..	62	18	3			
Graduates	..	..	..	..	..	7	15	5			
						985	13	5			
,, Less Subscriptions in Advance—											
Members	..	..	..	..	£73	3	0				
Associate Members	..	..	..	..	0	13	9				
Associates	..	..	..	..	2	12	9				
Companions	..	..	..	..	0	19	3				
						77	8	9			
									908	4	8
,, Interest :											
Consols	..	..	..	..	..	14	14	0			
Transvaal Stock	..	..	..	..	..	5	14	0			
Deposit Account	..	..	..	..	..	7	0	1			
									27	8	1
Recreation Section :											
Sale of Dinner Tickets	..	..	..	..	..	60	15	0			
,, Cinderella Tickets	..	..	..	..	..	12	12	0			
,, Conversazione Tickets	..	..	..	..	..	55	2	5			
									128	9	5
,, Donation, James Knott, Esq.	..	..	..	..	..				52	0	0
,, Donation to Library	..	..	..	..	..				1	1	0
,, Donations to Tennis Club	..	..	..	..	..				5	0	0
,, Transaction Section	..	..	..	..	..				20	14	1
,, Advertisements	..	..	..	..	..				110	4	10
,, Recreation Section :											
,, General Revenue :											
Sale of Bye-Laws	..	..	..	..	..	0	2	0			
Telephone Way (Leave and Calls)	..	..	..	..	..	0	10	7			
Billiard Table Receipts	..	..	..	..	..	1	14	0			
									2	6	7

 £1,255 8 8

THE INSTITUTE OF MARINE ENGINEERS.

BALANCE SHEET, 31st JANUARY, 1908.

DR	BALANCE SHEET, 31st JANUARY, 1908.				CR.	
LIABILITIES.				ASSETS.		
	£	s.	d.	£	s.	d.
To Sundry Creditors			43 15 10	By Cash—		
„ Subscriptions in advance			77 8 9	At Bank	409	13 9
„ Denny Gold Medal Fund			261 13 4	On Deposit	200	0 0
„ Stephen's Legacy Fund—				In Hand	3	0 3
Balance, 1st February, 1907 ..	109	12	6			
Add Interest	2	10	0			
			112 2 6	„ Sundry Debtors for Conversazione Tickets ..	34	3 0
„ Revenue Account—				„ Consols 2½ % , £618 13s. 6d., valued at £85 ..	525	17 6
Balance, 1st February, 1907 ..	2,462	10	2	„ Transvaal 3 % £200 Stock at cost	198	1 0
Add Balance of Revenue Account	139	13	8	„ Freehold of Institute Buildings	1,500	0 0
„ Composition Fee and Entrance Fees for year ..	93	16	0	„ Additions, Alterations and Repairs to Buildings—		
			2,695 19 10	Balance, 1st February, 1907 ..	26	3 9
				Depreciation	26	3 9
			£3,191 0 3	„ Furniture of Institute—		
				Balance, 1st February, 1907 ..	331	10 8
				Additions	0	13 0
					332	3 8
				Less Depreciation	16	11 6
				„ Rates and Taxes in advance ..		4 12 7
						£3,191 0 3

20

In accordance with the provisions of the Companies' Act, 1900, we certify that all our requirements as Auditors have been complied with. We have audited the above Balance Sheet, and we are of opinion that such Balance Sheet is properly drawn up, so as to exhibit a true and correct view of the state of the Institute's affairs as shown by the Books of the Institute.

95, CANNON STREET, LONDON, E.C.
23th February, 1908.

WEST & DRAKE,
Chartered Accountants.

INSTITUTE OF MARINE ENGINEERS LAWN TENNIS CLUB.

EXPENDITURE.		INCOME.	
	£ s. d.		£ s. d.
General expenses ..	7 8 2½	Entrance fees	1 7 6
New Turf	5 10 0	Subscriptions	7 10 0
Postage and Stationery	0 5 9½	Donations	7 19 6
Excursion to Theydon Bois	2 4 9½	From games played on court	0 7 3
Expenses of Social ..	3 5 11	From Excursion	2 11 0
Picture postcards of Outing	0 8 6	From picture postcards	0 4 8
Garden roller	1 5 0	From Social	4 12 0
Bunting	0 10 6		
Gratuity to Caretaker ..	1 0 0		
Cash Balance	2 13 2½		
	<u>£24 11 11</u>		<u>£24 11 11</u>

A. ROBERTSON (*Captain*).
J. H. REDMAN (*Hon. Secretary*).

CHAIRMAN: I will now call upon Mr. Mather to read the financial statement.

Mr. A. H. MATHER (Hon. Treasurer): I have very much pleasure in putting before you the position of the Institute financially, at the close of the last financial year. I might read, first of all, the report of Messrs. West & Drake, the Chartered Accountants who examined our books.

95, CANNON STREET,
LONDON, E.C.
3rd March, 1908.

To the Members of the

INSTITUTE OF MARINE ENGINEERS,
58, ROMFORD ROAD, STRATFORD, E.

GENTLEMEN,

We have to report that we have examined and checked the Accounts of your Institute for the year ended 31st January, 1908.

The Balance of Revenue Account is £139 13s. 8d. as against £52 14s. 9d. for the previous year; this is an increase of £86 18s. 11d. which is mainly accounted for by the following items:—

Subscriptions have increased £339 11s. 4d., against which there have been increases of £59 17s. 3d. in General Expenses, £29 1s. in Repairs, £101 9s. 4d. in Papers and Discussions, and £22 11s. 2d. on the Conversazione, and £16 0s. 2d. on the Annual Meeting Expenses, an item which does not occur in the Accounts of the previous year.

We are of opinion that the Balance Sheet of your Institute is properly drawn up, so as to exhibit a true and correct view of the state of the Institute's affairs, as shown by the books of the Institute.

We have inspected the Title Deeds of the Freehold Property.

We have verified the Balances at the Bank and the Investments.

We are, Gentlemen,

Yours truly,

WEST & DRAKE,

Chartered Accountants.

This report deals with practically all the outstanding features of both the Revenue Account and Balance Sheet this year as compared with last year. In spite of a heavier expenditure generally on all sections of the Institute's work, we are still in a very much more favourable position than at the close of the previous year. This is mainly the result of the great increase in the amount received for subscriptions and I would like to point out that this difference in the amount of subscriptions received as compared with last year is due very much to the fact that we have been able to get in a very large amount of arrears. The office work has been kept up in good style, the members have been notified of the amount due, and when the amount has not been forthcoming, another notice has been sent. The result is that the amount of subscriptions received is £908 4s. 8d. as compared with £568 13s. 4d. of the previous year. This, I think, shows very much better work in that direction, seeing that the amount of money available from this source is £360 more than in the previous year. The balance shown in this year's Revenue Account, £139 13s. 8d., as compared with £52 14s. 9d. of last year's statement, is perhaps a larger figure than some of the members would care to see, but I think that, in view of any possible changes in the position of the Institute, it is a good matter to have a sufficient balance to make some new departure if called upon. I do not think we should try to have too large a balance at the close of the year, which would appear to show that the office bearers were not making the best of the members' subscriptions, but when we compare this amount with the small balances and in some cases deficits of previous years, I think it shows that the finances of the Institute are in a very sound condition. At the present time we have rather more money on hand than before, and the proposal is before the Council to invest some of this money. It will be seen from the Balance Sheet that there is £200 on deposit and £409 13s. 9d. on current account. This, I may say, has been altered by placing the larger part of this £409 on deposit until we can find a proper investment to put some of it into. Our present investments consist of £525 in the 2½ per cent Consols at 85, the figure at which they stood a year or two ago when this money was invested and to the value of which it was considered advisable to write it down, also £198 in the Transvaal 3 per cent stock, and the proposal now is to take part of this available money

in the bank and make use of it in some valuable investment.

Mr. JOHN CLARK (Member): The Annual Report and the Financial Statement have been put before you. I feel sure I am voicing the prevailing feeling in saying that the Council thoroughly deserve our congratulations on their satisfactory nature and I have much pleasure in moving their adoption and that they be printed and circulated to the members. It has been a great pleasure to me to be associated with the work of the Institute as one of the Honorary Auditors and, needless to say, the pleasure is greatly enhanced when one sees that not only is the balance substantially increased by something like £90 more than the corresponding balance of last year, but that in all grades of our Institute the subscriptions are well up to the high water mark. In spite of the heavy losses we have sustained by death it is very gratifying to see that thirty-six new members have been added to the roll. Among the names of those we have lost, and whose places it will be difficult to fill, are several who won world-wide reputation, notably Lord Kelvin and Mr. J. Macfarlane Gray, to mention only two names.

I think I can say without fear of contradiction that the Transactions are first and foremost the most valuable asset the Institute possesses, more especially as the Transactions are, if not the only means, at least they are the chief means of keeping the majority of the members in touch with the Institute, owing to the fact that our members are, for the most part, afloat and abroad. It is almost unnecessary for me to say that this asset should be most jealously guarded, and perhaps it would enhance their value and be of service to those abroad if occasional editorial notes were inserted relating to modern experience in the engineering world. I am glad to see that the Council do not curtail the expenditure on this head. Approximately £100 more has been spent on this item than last year, and I am sure the members will appreciate this, which indicates that everything is being done in this direction to directly benefit them. The advertisements have brought in the handsome sum of £110 as against £88 last year, and these figures amply justify the view that such a source of revenue could be tapped for the furtherance of the sinews of war. I would even like to see this extended and no doubt

it will be, as occasion offers, in the future, not only for the sake of increased revenue but also because of the usefulness of such advertisements to many in out-of-the-way places.

Our report ends up with a most pregnant remark which is vital to the prosperity of the Institute and urges each individual member to do all he can to further the aims and objects of the Institute. This contains a good germ, but if left alone may not be productive of much good. I might say that I noticed in a recent issue of the *Engineer* that the Institution of Mechanical Engineers Report stated as a result of suggestions made by members at the invitation of the Council some months ago, information is being collected on the present state of knowledge with regard to many vexed questions in engineering matters. Could we not take a leaf from their book and do likewise? I would like to commend this to the consideration of our Council. It might be found that good use could be made of our Transactions in this way. It should be remembered that in the multitude of counsellors there is a deal of wisdom when the end and aim is common to all and I venture to think that many of our members have good ideas stowed away in some corner of their minds which would be of great benefit if brought to light.

The social side of engineering has also been well done. No doubt this is a desirable and essential feature of any such Institute as ours, and so long as the engineering side—which, after all, is the main side—is not neglected, it has undoubtedly the hearty approval of all. The only remark I would like to make, and it is as well that we should look at facts in the face, is that the revenue under this head does not quite meet the expenditure.

I think more use could be made of the excellent library we have. For every time one wants to borrow a book I dare say there is a score of times one wants to consult a book, and I think if the bookcases were thrown open to permit of one referring to the books at any time, it would be a great boon—the lending of the books, of course, would be carried out in the same manner as at present. So far as I am personally concerned, I have nothing but thanks to give to our worthy caretaker, Mr. Rumsey, for his never-failing courtesy and obliging manner in connection with the library, but if the bookcases are locked up, one feels that the average individual would consider it hardly worth while to trouble people to get them opened.

Before sitting down I would like to say a word or two as to the attendance at our meetings. Sometimes they are not so well attended as one would like to see. Is it not possible to improve this? Would it not be an inducement to those resident in the locality to attend, if an advance copy of the paper to be read were sent to them by post as soon as printed. The cost would be small and I think it would be a means of causing many to attend who otherwise would not. The same might also be done in connection with engineers arriving in port, accompanied by an invitation to be present. With these remarks, which I leave to your consideration, I have much pleasure in moving the adoption of the Reports.

Mr. G. W. NEWALL (Member): I have very great pleasure in seconding this motion. I have not much to say on the Reports as Mr. Clark has left me very little to remark upon, but that is his usual style. For some little time we have been trying to search out an old diagram but have been unable to find it, otherwise I wished to show graphically the position of the Institute. We have had it before, but somehow or other it has disappeared. However in future I will try to keep this indicator diagram in order. I think, gentlemen, we will all agree, regarding this Report and Balance Sheet, that the telegraph of the Institute is still "ahead," therefore I have much pleasure in seconding their adoption.

Mr. W. E. FAREN DEN (Assoc.): Before putting the motion as to the adoption of these reports, there is one question I should like to ask the Honorary Treasurer in reference to the item in the Balance Sheet on the assets side, the amount of £34 3s. shown as "Sundry debtors, for Conversazione tickets." Might I ask if it is likely that the whole of this amount will be received, because, if so, it evidently will more than clear off the loss on the Conversazione, which amounts to £23. It would be a great pity to have a loss on such an excellent function as our Conversazione. It was such a successful evening and the arrangements were so well carried out.

Mr. MATHER: I think I can set Mr. Farenden's mind at rest fairly easily on this matter. The function was held on January 24, and the amount shown on the Balance Sheet is the amount due at the end of the financial year, viz., January

31. Within a week after that date the bulk of that money was received, so that the amount does not represent a loss to the Institute. This amount of money came to hand very shortly after the function took place.

Mr. A. E. SHARP (Member): I should like to hear a word from some of the Members of Council about the statements put forward in the report, for instance the proposal to have rooms in the City.

CHAIRMAN: Perhaps, Mr. Sharp, that might be more easily discussed further on in the evening.

Mr. SHARP: I thought perhaps, as the question was now going to be put, it precluded any further discussion.

CHAIRMAN: You will notice further on in the programme there is provision made for the discussion of this matter under the heading of "recommendations." The adoption of the Reports, gentlemen, has been eloquently proposed by Mr. Clark and seconded by Mr. Newall. I will not say anything upon them just now, although there are several points upon which one might enlarge and emphasize, but may I take it from you, gentlemen, that these reports should be adopted. They are very excellent reports indeed, which I think we should all be very pleased to have.

The vote was then put to the meeting and carried unanimously.

CHAIRMAN: Our worthy Secretary has asked me to propose the vote of thanks to our retiring President, and seeing that the evening is getting on, I will not occupy too much of your time, but will say at once that I have great pleasure in proposing a hearty vote of thanks to our retiring President, Mr. Knott, for his services to the Institute during the year. Mr. Knott, I am sure you will all agree, has proved a worthy successor to those gentlemen who have preceded him in that position. He has taken a lively interest in our proceedings, he has visited our premises, given a presidential address, looked into the work of the Institute and has expressed himself as very well pleased with the Council and members who carry

out that work. I do not think there is any one of our members, in fact that there is any marine engineer whether a member or not, but must feel gratified if he simply reads down the list of names of Presidents who have honoured the Institute by filling that office, gentlemen in the very front rank of their profession, shipowners, shipbuilders and engineers. I think we are all proud of our Presidents, and Mr. Knott, as I said, is a worthy successor to those gentlemen who have preceded him. There is another little matter I might draw attention to. As you know, we have had among our presidents a considerable number of shipowners. That, I think, is as it ought to be, because I take it that one of the objects of this Institute, whether expressed or not is definitely implied, and that is to promote a sympathy and mutual consideration for one another's difficulties, and mutual respect for each other all round, between the shipowner who runs or manages the ship and the marine engineer who is so important a factor in the successful running of the ship. Therefore we are glad to see so many of these leading shipowners among our past presidents and it is extremely gratifying to us as members of the Institute to know that these gentlemen have taken part in helping on the work of the Institute. We feel proud likewise in the fact that with each new president the Institute has gained a new friend, and not only a new friend, but a lasting friend. I am sure our worthy Secretary, or any gentleman connected with the Council or connected with the Annual Dinner Committee, will agree that every one of these past presidents of the Institute, at considerable inconvenience to himself, has lent a helping hand to make those functions a success. With reference to Mr. Knott, two little points were alluded to, one of them being that he very kindly gave a donation towards the funds of the Institute. We value that very much, but I personally value much more the words read by our Hon. Secretary in his report, which I think you will allow me to repeat. They are the closing words in Mr. Knott's presidential address when he said, "It has been a very interesting function to-night to me, more in the nature of a revelation, and I shall always take the greatest, most earnest and heartiest interest in this Institute, not only for my term of office but as long as I live." I had not noticed those words until they caught my eye to-night, I thought they were well worth repeating, and they bear out what I said, that Mr. Knott will prove no

exception to the rule, that he will prove not only a friend to the Institute, but a lasting friend as well. In reference to this feeling of sympathy and consideration for one another's difficulties which I hinted at, we all know that the life of a marine engineer is a hard and arduous one. He has to carry out his duties, it may be on the stormy waters of the North Atlantic or under the burning heat of the tropics, he has to carry out those duties under circumstances undreamt of by those engineers who have never left home, and I think it must be a pleasant thing for the members of an Institute of this kind to know that they have those gentlemen whom they serve, the owners of the ships in which they perform their duties, taking an active part in the work of their Institute and proving friends to the members of the Institute in general. I shall now ask you to pass a hearty vote of thanks to our retiring president.

Mr. W. C. ROBERTS, R.N.R. (Vice-President) : I have great pleasure in seconding that very excellent and cordial vote of thanks which has been proposed by the Chairman. He has said so much about the late president, that he leaves me very little to say on that subject, but there is no doubt, as Mr. Boyle has just said, that we have had a good number of excellent presidents, from the first to the last, and I hope that the list of honoured names will be continued. We are all agreed that it was very kind of Mr. Knott to give such a handsome donation. It indicates that he appreciated the position, or possibly he would not have given it. I need not say anything further in praise of Mr. Knott. He is a well-known shipowner, and the owner of a very large number of vessels. I was in Antwerp recently and saw there an illustration showing the fleet of the "Prince" Line. It was very interesting and almost looked like a portion of His Majesty's fleet, numbering about 50 steamers. I have great pleasure in seconding this vote of thanks.

The vote was carried with acclamation.

Mr. F. COOPER, R.N.R. (Member of Council) : I have pleasure in moving a recommendation to this Annual Meeting in connection with the obtaining of premises of some kind in the City. I think it might not be out of place if I referred to

the minutes of the Council meeting at which I first made this suggestion a few months ago. The extract is as follows :— Mr. Cooper proposed “ That the Council consider the advisability of opening rooms in the City during the day and evening.” The arguments adduced in favour of the proposal were, that there would be a great accession of members amongst sea-going engineers who were only in port for a day or two and who preferred spending their time in the city, and also that, under present circumstances, there was a difficulty in getting gentlemen to become members of Council unless they lived in the neighbourhood of Stratford. Mr. Cooper stated that he was assured by one gentleman that he knew at least 30 who would join if there were rooms in the City, and the Chairman pointed out that one of the gentlemen whose resignation had been received at the last meeting had spoken to him on the subject some time previously. Westminster and Charing Cross were suggested as suitable districts. The question of removing from Stratford altogether was discussed in view of the increasing importance of the Institute. Eventually a sub-committee was elected, consisting of the Chairman of Council, Hon. Secretary, Hon. Treasurer, Mr. F. Cooper and Mr. J. McLaren, to consider the whole matter, to ascertain the views of members in the City, to determine whether preferable to take simply meeting-rooms, or rooms on a more elaborate scale where members would be able to lunch, to find out on what terms it was possible to get rooms in the City and how far the Institute was prepared to go in the matter of expense.

Following up that matter, I argue that there are four good reasons why we should have premises in the City, either in addition to or in place of the Stratford premises.

First, I believe we would get a great increase in the number of members, because the site would be more central than Stratford, whether for sea-going members or for those who do not go to sea. Several engineers in the City have stated that they would be pleased to become members of the Institute if they could make use of the Institute premises, but as it was so far away from their business and from where they lived, they could hardly make use of the rooms.

In the second place, I think it would be a great convenience to the members we have now, as well as to those we might get through this move. At present the Institute premises

are only used in the evening, and mostly by members who live in this district, excepting, of course, on the nights of lectures or when papers are read. And after all it would also be for the convenience of members who do live in this district. It is only in the evening that they use these premises, as, although they live in this district, they do not work here and cannot make use of the Institute during the day.

In the third place there is the matter that I referred to in the extract I read, that we would be able to get more men who would be willing to act on the Council of the Institute. I do not mean to suggest that you do not have the best men on the Council now, but I do know, and other members of Council know, that we have had many refusals from gentlemen because they lived so far away that they could not conveniently attend, and they would not become members of Council when they could not attend the meetings. It might be said, of course, that the meetings of Council could be held in another place, but I think it is best to have the meetings of Council on the Institute premises.

In the fourth place I think it would give the Institute of Marine Engineers a better status. Other institutions have their premises in the City or West End, and as we only have what might be called "local" premises, we have not the same status as some other societies, I hope only on account of the location of our premises. There are two proposals: one is that we should merely have a couple of rooms in the city where we could have meetings during the day, where members could meet each other or make use of the telephone, or where they could meet in the evening, and where, occasionally, we might have papers read. The other proposal, of course, is that we should give up the Stratford premises entirely and move to more suitable premises in the city. There are in this connection two matters which have to be considered. In the first place the Council cannot act in this matter unless by the sanction of the meeting. During the past month or two we have been investigating. We have had two or three offers which would be eminently suitable, but could not close as the Council had not the authority without the consent of the members, either at a special meeting or at the Annual General Meeting. In the second place there is the expense. That is a matter that would have to be very carefully considered. If we keep on these premises and have additional

rooms in the City it would run to *at least* £100 extra a year for rent, and to give up this building and take premises in the City would run to perhaps three times that amount. I have spoken to a good many members and friends in connection with this matter, and only to-day I had a letter from Mr. Robert Leslie, who had intended to be here and who is very enthusiastic in this matter. He writes as follows:—

“As the meeting of our Institute will take place to-morrow evening I hope it will be a good one. I fear I shall have to be either at Tilbury or Southampton and much regret that I shall not be able to be present as I should have liked to have given expression to my views *re* a home in the City. I feel certainly very strongly in favour of this step being taken, as I am sure that it would be the means of increasing our members and would also place us on the same footing as all the other Institutions in London. I also feel sure that a great many of our influential friends would give the Institute greater support if it was in the City. I do not argue thus because I am in the City, but simply because it would—I feel assured—have the support of a great many engineers who are in Glasgow, Edinburgh, Leeds, etc., as well as the engineers who sail from the various docks. For the time being, two good rooms in a central position, near to Fenchurch Street station, would answer the purpose, where members would call, use the 'phone, meet their business friends, write letters and make appointments. This would not only be of great value to our country members but also to our town members. Should the approval of the members be obtained at the Annual Meeting—in favour of this movement—a good business committee could be formed and a list of rooms to let be obtained, when a selection could be made of the best, cheapest and most suitable for the requirements. I hope that you will do your best *re* this matter and be well backed up so as to carry it through.”

PS.—“I have been permitted to make use of the following names in favour of a move to the City :

“Sir A. Haslam, Derby, Mr. P. Caird, Greenock, Dr. Caird, Greenock, Mr. Beldam, London, Mr. F. Lang, Leeds, Mr. R. Watson, Newcastle, Mr. J. E. Smith, Glasgow, Mr. Gibbons, Edinburgh, Mr. Dewar, London, Mr. Horswell, London, Mr. Dore, London, Mr. Wimshurst, Southampton, Mr. W. I. Taylor, London, Mr. C. A. Beldam, London, Mr. W. W. Wilson, Greenock, Mr. J. T. Smith, Greenock, Mr. A. E. Sharp, London.

“Nearly all our engineers who are members of the Institute and many others have promised their best support.”

That is the feeling of some of our influential members, and I hope there is time to discuss this matter so that some instructions can be given to the Council to make a move in this matter.

Mr. ROBERT BALFOUR (Member) : I should like to express my views with regard to this matter. It is one that has been fought out from time to time and my view has always been that we should have regard to the birthplace of the Institute. I know most of the influential members who support the advisability of having a place in the City, and I do not think there is one of them who has other than the best interests of the Institute at heart, and to my mind it would be a fitting opportunity on the occasion of the Institute attaining its majority to bring our minds to favour this extension ; but we should not give up Stratford.

At the same time when we come to our majority we ought to be able to say that we are in a sound position financially, and as an Institute we must not drift into any risky undertaking.

If we are not in a position to enter into a more ambitious scheme, we might, as Mr. Cooper suggests, rent one or two rooms in the City, where many members from outports, etc., on short visits would be able to use them for meeting and discussing points with the members who are chiefly confined to the City during the day. This, in my opinion, would tend to benefit the Institute as a whole.

Mr. A. E. SHARP (Member) : I have very little to add to what has already been said on this subject. I can only say that I am very much in favour of the scheme and I think the Institute would go ahead if it were adopted. One gentleman, when I mentioned it to him, said, “Well, if we had rooms in the City, I could guarantee quite 200 members.” I do not know whether there is any tendency to restrict the membership of the Institute, but, to my mind, the more members we get the better, and I do not think we are taking any very great liability in venturing on such a step, or that there need be any hesitation, as the increase in membership alone would compensate for it. There are a lot of

aspects in connection with this that have occurred to me that I do not remember at the present moment, but I do not think it would be so much of an advantage to the sea-going members as it would be in getting us an influx of more influential members, which I think is a thing we could very well do with. The question of making the Institute more attractive to the sea-going community is a thing I have been thinking about a long time, and I do not think we do sufficient for them, or that we altogether sympathize with them. I think we ought to put our best efforts forward more to make the Institute more interesting for the sea-going engineer. The sea-going members themselves are rather indifferent as far as the Institute goes, but I think we should make a special effort to get more of them into the membership of the Institute. I have heard that a circular has been sent out, which I should like to know something more about, but I think it is what we are rather backward in. The aspect of the thing that suggested itself to me was this: our country is the first shipping country in the world; if we can get all the engineers into our Society, additional importance will be given to the Society, and that is the point where, I see, we are going to come more to the front than we have done. Of course this is by the way to the discussion just now; as far as that goes I am heart and soul in the matter.

Mr. J. G. HAWTHORN (Hon. Min. Sec.): I think it would be very fitting indeed if some member of the Institute outside the Council would make a proposition to the effect that the Council of the Institute of Marine Engineers do take into consideration the advisability of moving to the City, and suggest in what way we should deal with the matter. I think it would be good if some member were to make such a proposition so that it might be entered in the minutes.

Mr. SHARP: I should be very glad to make such a proposition, but I should have better liked if there had been some scheme on which we could move. I understand Mr. Cooper stated that there are two proposals, one is to give up these premises entirely, and the other partially; is that so?

Mr. COOPER: That is so.

Mr. SHARP : I do not quite understand whether one is outside our means and the other inside.

Mr. COOPER : My proposal would be that we should take two rooms in the City for a start, and if we find them successful in bringing more members, that we should go further in due course and have larger premises in the City. Meantime I suggest that we should have some meeting place in the City, say a couple of rooms.

Mr. SHARP : In that case I have great pleasure in proposing that the Council be instructed to make arrangements on the best scheme which Mr. Cooper put forward.

Mr. BALFOUR : I have very much pleasure in seconding that.

Mr. GEO. ADAMS (Member of Council) : I would just like to say a word before this motion is put to the meeting. The suggestion of having rooms in the City is well known to many of us, that is to say it is not altogether a new idea. Opinions from time to time have been expressed by many members that it would add materially to the benefit of the Institute if we had some rooms in the City which could be used by the members generally and in which some of the Lectures of the Institute might be given.

The thought occurred to me while attending the recent Lectures given by Mr. J. T. Milton in the London Institution that the hall we occupied that evening was a most suitable place in which to hold lectures when given in the City ; its situation in Finsbury Square is a most convenient one for all ; and that we might perhaps, when it was considered desirable, hire the hall in preference to permanently renting one and which would perhaps be a heavy charge upon us. We might, however, find say two rooms which we could take, and these be used as a reading room, and a room which could be used by members for appointments and so forth, and as time went on we should find out how far the Institute was justified in continuing the City premises.

Mr. ROBERTS : I have no idea of throwing cold water on such a project at all, I think it is a very essential one, but I

think it should be approached with due caution; if we "gang warily" we will "gang safely." There is not only the question of having rooms in the City, there are other expenses, such as secretarial work, to be considered. There should be some one there to represent the Institute night and day. There is that to consider and a great many other things to come up for thoroughly sifting out, but as for moving the premises entirely, I think that would be one of the greatest mistakes that ever the Institute made. By all means have a place in the City, but a place in the City the same as the Institution of Naval Architects and the North East Coast Institution in Newcastle. They have simply offices, but the Secretary is always there, he would be obliged to be there, it would not do to have a boy in the office. That, of course, is a point to be considered.

MR. W. E. FARENDE: I take it the proposition made by Mr. Sharp is to this effect. That the Members of Council look around and see if they can obtain two rooms for a certain period and at the same time keep on our premises here, hiring the two rooms in the City at a reasonable cost and beyond that nothing else being done for the time being, simply two rooms in the neighbourhood of Fenchurch Street or Liverpool Street stations, and say for twelve months or so on trial.

MR. A. E. BATTLE (Member of Council): I should like to suggest that in the proposition the word City be deleted and that we have in its place some more suitable locality. My experience of an engineer's life told me that it was an arduous one. He goes to sea and has a rough time, and when he comes on shore it is proposed to invite him to the City. Now, gentlemen, you all know what the City is at night time. That is the only time the engineer is at liberty, the only time he has an opportunity of making use of his stay in port. I think it advisable that this Institute should be placed in a better neighbourhood, say somewhere about the Strand, near the Society of Arts, so that a young man could go there for about an hour or two hours and then go away for a little healthy recreation somewhere else in the many places of entertainment around that district. I think that is the only way in which we can do it and so obtain the support of all sea-going engineers.

MR. SHARP : I have a decided objection to that. My idea is that we ought to have two rooms and a library. The sea-going element want a [different kind of relaxation to this, and I am strongly of the opinion that we could get a much more influential membership by having rooms around the City, and as for a library, I consider it a *sine quâ non*. The library at the Institution of Naval Architects is a reference one only and their rooms are open at a time when it is impossible for the average business man to be there. At the North East Coast Institution they have a lending library and the rooms are open till 10 at night. An easily accessible library is very important, as it is often the only means open to many persons of seeing the Transactions of the different Institutions.

MR. K. C. BALES (Member) : My opinion as to these rooms is that we should strictly limit their location to the limits of the City itself, and as near to Fenchurch Street or Liverpool Street stations as it is possible to get them. Mr. Battle implied that the City was a most dreadful place after dark, and in the same breath proposed that we should take rooms in the locality or vicinity of the Strand. Now I ask which of these two is the better locality. This is not a matter to be lightly considered, but a great and serious one from the standpoint of the Institute of Marine Engineers, and personally I think the step a very good one to have these rooms in the City. I can appreciate the caution which Mr. Balfour and Mr. Roberts have instilled into us, but Mr. Cooper has put the cost of these two rooms in the City at only £100 a year. What is £100 a year? You have a membership of 1,000—2s. per annum on 1,000 will bring in £100 a year. I should support the proposition that this Institute puts forward an instruction to the Council that they go into the question of renting two rooms within the limits of the City at or about £100 a year.

MR. BATTLE : I should like to make an explanation, as I think I have been misunderstood with reference to the question of the locality. I do not think that the neighbourhood of the Society of Arts or the other Societies can have that insinuation applied, and I may say that quite a number of learned Institutions are in that locality, and it is also the centre of

lecture halls, and high-class theatres. Covent Garden is near there, where the best operatic music can be heard, the best theatres are in that vicinity, where the masterpieces of Shakespeare can be seen, and the best lectures may be heard in buildings near at hand. Exeter Hall was there also until recently, and being near such Institutions as the Society of Arts, and the Institutions of Civil Engineers and Mechanical Engineers, I still contend that at night time it is a far preferable neighbourhood to the City, which is practically filled with East End aliens making it a promenade.

Mr. BALFOUR: With regard to the most suitable locality, should such a scheme be decided upon, I think somewhere about the east end of the City would meet the case.

Such Institutions as the Mechanical and Civil Engineers have their headquarters in Westminster probably because their main businesses are in that district; therefore Stratford may be looked upon as being near to the docks where most of the members hail from.

Mr. ROBERTS: I think the proposition was put too early. The subject has now been pretty well discussed, and I beg to propose that the Council of this Institute be empowered to look for suitable rooms in the neighbourhood of Liverpool Street and Fenchurch Street stations—nearly all the business houses of marine engineers radiate from these two stations, and I fancy that would be the most suitable situation—and that they call an emergency meeting to sanction what they propose to do.

Mr. JOHN McLAREN (Member of Council): The question of having two rooms has been mentioned. Will two rooms be an advantage? We will need a library there, reading-room and writing-room. That will mean that we will have to buy another library. Again, what are we going to put into the two rooms; will it be only a place for tables and chairs? We made some inquiries round about Fenchurch Street and Liverpool Street and it was quite beyond us financially to get any rooms with what we considered adequate provision. I do not support going West, but West for us would be much cheaper. The expense is considerable around Liverpool Street and Fenchurch Street, and there is the additional

expense of furnishing a reading-room and library, as the place must be made attractive in some way.

Mr. ADAMS : I should just like to ask Mr. Sharp as to the 200 members who he said would join.

Mr. SHARP : I did not promise them, it was a member who made the remark and from what I know of him he is capable of acting up to what he said.

Mr. ADAMS : In reference to that, perhaps Mr. Sharp could suggest as to which part would most suit the convenience of those 200 prospective members, would it be likely to be west or central ?

Mr. SHARP : I have no doubt about it, as the most of the members have said, between Liverpool Street and Fenchurch Street.

Mr. HAWTHORN : I should like to say a word. I think some of the members are under the impression that the Institute is going to the City. The idea is not to make a lounge, but simply a place where members may meet to engage in conversation, or to consult books of reference for information required in their daily business. As has been pertinently put, the Transactions of other Institutions are only to be seen in these Institutions, and it would be a great trouble, in estimating, to run down to Stratford to look out the information. The rooms would simply be as a house of call, where one might receive letters and make appointments, but it is not intended to make a lounge of it. The hours during which it would be open might be from 10 to 4 or 10 to 5.

Mr. E. W. Ross (Hon. Fin. Sec.) : This question of expense has been estimated at £100 per annum. In my opinion it would be five times that amount. ("No, no.") I wish to support Mr. Cooper in this proposal that we should have rooms in the City, but also with Mr. Balfour, I think we should "ca' canny." This £100 is apparently put forward as the total amount required. ("No, no, as rent only.") We have to take into consideration the expenses of providing a caretaker and of furnishing and other necessary expenditure. I just

merely state this. £100 will not be the only cost, and I should like members outside the Council to understand this is not the finality of the amount to be paid. But still, I believe it would do the Institute a great amount of good if we had these rooms in the City. It would not be necessary to provide a library such as we have here. The great point that would be gained is that we would probably get a greater number of men of influence to attach themselves to the Institute, and another thing, men of talent to give us papers for our Transactions. These papers would go forth all over the world with the hall mark of worth which would raise the Institute in the eyes of the world to a higher position. I heartily support the proposal to have rooms in the City, but I would have it understood that they are not to be got for nothing.

MR. GEO. ADAMS : We have had this matter discussed at some length and I now have pleasure in seconding the proposition made by Mr. Roberts.

MR. FAREN DEN : Do I understand that we shall have another meeting further on to discuss the matter.

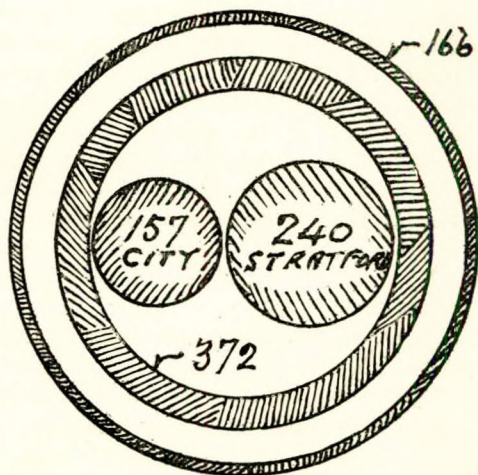
CHAIRMAN : This is only a recommendation to take action.

MR. COOPER : My idea was not that all the members should enter into the discussion as to whether the cost should be £100 or £101, or the question of a caretaker, or of limiting it to one, two or three rooms, but that the membership at this Annual Meeting should give the Council the power, at their discretion, to engage rooms which they knew the Institute were able to pay for, and not to run the Institute into debt. If the members are not going to trust the Council without their personal sanction at every phase of the proceedings, nothing can be done, because if the Council are not fit to carry out a proposal of this sort without a general meeting of the members every time, I do not think the matter would be settled at any time. It would mean that we could only bring it up either at the Annual Meeting or at a general meeting of which the members have had three months' notice and no arrangement could be made over this long period.

MR. ROBERTS : I think I mentioned in the proposition that

an emergency meeting should be called which would give the Council power to proceed.

MR. J. R. RUTHVEN (Member) : I would like to make a few remarks on the subject of the location of the Institute. This subject has often occupied the attention of the Council. The chief point to keep before us is that this is the Institute of Marine Engineers and everything should be done for the interests of the sea-going members rather than for those who remain ashore. One way of looking at the matter would be to find the centre of gravity of the residences of all members so that the convenience of the majority could be considered for the purpose of getting to the Institute. I have made an estimate of the place of residence of all classes of members whose address is known. I have made a diagram embodying



the results, and it will be seen that the Institute is in the centre of 240 members living in the neighbourhood. The City is the centre of 157 members; this includes all the members giving City addresses and of those living north, south and west of the City.

The rest of the members having addresses in England, Scotland, Ireland and Wales number 372, and the members beyond the seas in Europe, Asia, America, Africa, Australia and New Zealand number 166. This totals up to 935, the number of addresses given in the last report.

There is no doubt that the Institute should have premises along with the other Engineering Institutions, in the City or West End ; but there must still be an Institute here.

Experiments have frequently been tried by having meetings in the City ; in every case the great majority of visitors came from Stratford, showing that Stratford is the great centre.

The HONORARY SECRETARY : I stand up in defence of the work of the Institute. I am an optimist in the highest sense of the term, and I would point out that this Institute has done in the time what no other kindred Society in the Kingdom has done, as we have had a house of our own for many years now, and yet we are still in our teens. I know that many members who have urged a change entertain the view that I have an objection to removing to the City. I have no objection whatever, but, like Mr. Roberts, I would exercise a good deal of caution in the matter. It is purely a question of finance, subject to the convenience of the majority of the members, and it is a point that we ought to consider well before taking any step in the direction of removing. The idea has gone forth that we should move the Institute bodily to the City, but the view put forward to-night is certainly new to me ; I did not know that two rooms in the City would cover the want, and I consider that such a course would be on the right lines.

Mr. HAWTHORN : I never thought there was a proposal in any other shape.

The HONORARY SECRETARY : I may perhaps stand correction, but as a member of the committee appointed by the Council to go into this matter I think I know something about the views put before us and what the committee were empowered to do, and, inasmuch as there were premises looked at in John Street, Adelphi, larger than the premises we now occupy and that we were desired to look at them, the evidence seems clear. There was another place in Devonshire Square also considerably larger than our own which we were asked to consider. That also supports the view that the idea was to remove to the City bodily, so that, on the whole, I hail the modified form put before us to-night with a good deal of pleasure as a step in the right direction seeing that is the view entertained.

In support of what has been said about the comparative position of this Institute, I may say that the Institution of Engineers and Shipbuilders of Scotland has just been celebrating its jubilee. The annual subscription of the members is more than double ours, and yet only now they are able to enter a home of their own in Glasgow. They have been renting premises from another Institution all these years. With regard to the Institution of Naval Architects, it has no home of its own yet, although also senior to us in years and with a larger annual subscription. We get no support from the rates, yet we hold our own and are sufficiently independent to hold our own and are proud of it. Seeing it is the case that we have progressed so well from the day upon which the Institute was founded, that we have a home of our own, we can now step out in other directions and have these rooms in the City, and I believe it will do good. I think Mr. Ross has perhaps over-stated the amount of the expense and others have understated it, but I should say we would require to face an extra expenditure of £200 a year, and it is a question where we are to get it. Mr. Sharp has promised a portion of it in a large influx of members and other members have also promised portions, so that if all these members keep their promises we need have no fear but that the project will be carried through and be successful financially. As Mr. Ruthven pointed out, we arranged meetings in the London Institution purposely for those in the City and we all know the result. Those members who expressed themselves most in favour of such were not present in any measure to support their case. I should say if those who desire the Institute to make a move such as this, their best plan is to join the Institute first and then offer suggestions and help to carry them into effect by assisting to provide the means. Our position at present is that we, who have hitherto borne the burden, have been gradually husbanding our financial resources to get a fund together so that we might be able to secure a building worthy of the Institute of Marine Engineers, and in view of that we should be careful that we do not fritter away anything which might have the effect of robbing us of that inheritance to which we look forward. We are now approaching our twenty-first birthday and I hoped by that time we might have a building worthy of the Institute, and I have no doubt when the time comes we will have a sufficient amount which will enable

us to have such a building. Our expenses, however, were abnormally heavy a few years ago owing to circumstances I need not now enlarge upon, but we are now recovering and the lessons we have had bid us exercise caution; we learnt that promises do not always bear good fruit. I do not quite see that if we had our meetings in the City it would suit our sea-going members, and that is the important consideration. Mr. Roberts rang the note, and Mr. Balfour also, that we should still hold to our building here. I say so too, until we get a better one do not let us go to any other with a prospective heavier outlay. Our building cannot be compared with that of the Civil Engineers, and by the same token look at the number of years since the foundation of that Institution, or that of the Mechanical Engineers; yet with much larger subscriptions paid by their members both of these Institutions waited many years before they got buildings, and with moneyed men at their back to give largely to assist. To my mind it seems we have done wonderfully well, and I think our status stands high because we have acted judiciously.

CHAIRMAN: We have a good deal more business and have had a very full discussion on this matter, but I should not like to close it if any gentleman has anything to say. If not, I will now put the motion proposed by Mr. Roberts and seconded by Mr. Adams, to this effect—That the Council of the Institute be empowered to look for suitable rooms in the neighbourhood of Liverpool Street and Fenchurch Street stations for use of the members and that an emergency meeting be called to sanction anything that they may propose to do in the matter.

The resolution was carried unanimously.

Mr. FARENDEEN: If I may be allowed I should like to propose that, as the By-laws of the Institute are to be reprinted, so as to bring them up-to-date, it would be well to have the By-laws issued with the Annual Report. A great number of the members, I feel sure, have never seen the By-laws; other Institutions have theirs printed with the Annual Report and I propose that this be done in connexion with ours for the future.

Mr. SHARP: May I say a few words on that point. Take

the case of new members when joining, they sometimes do not get hold of the By-laws until probably four years after they have joined. I think the By-laws should be printed every year. I did not know that I had to make a contribution to the Institute, or read a paper, until long after I had become a member. The aspect of the case that presents itself to me is that new members ought to know what they commit themselves to. These By-laws, as amended from time to time, should be printed in the Transactions. This might be in the way of a suggestion for the Council to deal with.

Mr. BALFOUR : It is the practice in some of the kindred Institutions to issue the By-laws along with the Annual Report.

CHAIRMAN : I am sure the Council will be anxious to meet the wishes and convenience of the members and anxious to act with them in this matter. I suppose we may leave it at that.

Mr. SHARP : Say, as a recommendation to the Council.

The HONORARY SECRETARY : The By-laws are not altered very often and we have generally got out an edition now and again when the stock fell short. Of course if it is reprinted every year along with the Annual Report it will add to the expense. This year, as we have to get out a new edition, I have it pretty well in hand for the printers and have had alterations made so that it may be printed and published with the Annual Report this time.

Mr. SHARP : The only thing is, what is the position with regard to new members in reference to these By-laws. I think that is the difficulty in the matter.

Mr. ROBERTS : I think Mr. Farenden referred to printing alterations to the By-laws.

Mr. FARENDEN : No, the whole of it. I know a number of members who have never seen the By-laws at all.

Mr. COOPER : I am afraid a good many members of the Institute have had the By-laws a good many years and have never read them.

The HONORARY SECRETARY : Evidently members do not read the Application Forms, as in the Application Form a member signs a document and says he agrees with the By-laws. Generally a copy is sent out to every engineer who applies for membership; any alterations or additions are embodied in the reports of the Annual Meeting.

Mr. BALFOUR : I think if we look into the matter we will find that other Institutions issue the By-laws with their Transactions once a year, but in an Institution like this, working on economical lines, I think it would meet the exigencies of the case if we printed it in the Transactions when there was any alteration.

CHAIRMAN : Mr. Adamson has said that a copy of the By-laws will be issued with this Annual Report. Would that meet your views, Mr. Sharp ?

Mr. SHARP : I would leave it with Mr. Adamson and the Council to deal with.

Mr. J. THOM (Member) : I rise with much pleasure to propose a hearty vote of thanks to the Office Bearers and Members of the Council. During the last few minutes a lot of different points have been brought up, many of those things we have heard about on different occasions, and I do not think there is any question but that the members of Council are doing their duty all the time. Here is an Institution like the North East Coast Institution and other Institutions where they have no rooms of their own; we have had rooms of our own for years, where we can have our lectures given or papers read at any time. We have had more of those papers and lectures during the session than any other Institution in the kingdom. That is a good point from the member's point of view and also from the Council's point of view, as it is always a hard matter to get men to talk and express what they think. I am sure we all thank them very much for the way they have carried out the work during the year, and if further steps are taken to alter our position, that is to say to have rooms in other parts of London, I hope they will be as successful as we have been here. The proposal is for them to carry out in a business-like manner, and I have no doubt it will be carried out successfully and satisfactorily, as all

the other business has been in connection with this Institute.

Mr. K. C. BALES (Member): The privilege of seconding the vote of thanks to the Office Bearers and Members of Council, so ably proposed by Mr. Thom, has been conferred upon me. More than one of my distinguished predecessors, in performing this pleasing duty, have stated that the principal part of the work of the Institute is carried out by the Office Bearers and Members of Council. I think, gentlemen, that I am only your mouth-piece when I say that I believe this to be a fact and that you will unanimously endorse this expression of opinion when the Chairman puts the vote of thanks to the meeting. Of course, there are two ways of carrying out work, an efficient and an inefficient way. Which way has been adopted by the Office Bearers and Members of Council it is not necessary for us to ask, as the flourishing condition of the Institute gives a point to the old moral that if a thing is worth doing it is worth doing well, and there can be no question that those works have been done, not only well, but that individually and collectively the gentlemen responsible have done their conscientious best for the general well-being of the Institute. I suppose it is not too much to say that a period in the annals of the Institute's history does not exist in which a more eminently satisfactory state of affairs prevailed. There is just one possibility when things in this life go smoothly, and that is, that the means which bring about that end are apt to get overlooked, and the end to be taken too much as a natural order of things, the energy, anxiety and time of the human element being almost forgotten in only perceiving the result of their work. I am very pleased indeed to express my appreciation of the way that work has been done by seconding this vote.

The HONORARY SECRETARY: At this late hour of the evening I do not want to say much, but before returning thanks on behalf of the Office Bearers and Council, I should like to express my regret that our friend Mr. Lawrie is not with us to-night. He has, unfortunately, met with an accident, and is detained beyond the Channel, otherwise he would have been here to have responded on behalf of the Office Bearers and Council, and I think it would be a fitting thing if you were

proposing a resolution that we might pass along to Mr. Lawrie, expressing the hope that he may soon recover and be restored to us once more. (Agreed.)

I thank you very much, on behalf of the Council, for the cordial vote of thanks proposed by Mr. Thom and seconded by Mr. Bales, and I think, with Mr. Bales, that we have done all we could in the interests of the Institute. We have not spared ourselves when the time arrived that we should put our shoulders to the wheel, and I think Mr. Bales is correct when he says that we have not done our work formally and as a matter of course. We are always on the look-out to make improvements and adopt suggestions, nay, we welcome suggestions from members and friends. We have a witness over the doorway of the effect of a suggestion made at one of our Annual Meetings so that strangers and visitors and members may know where the Institute is on meeting nights. I do not think I need say anything more to members who do not come so often. We have adopted another suggestion made at an Annual Meeting, viz., the telephone. The telephone has been installed and I dare say has been found a very great improvement. We have also fitted out a room for the juniors, the outcome of a suggestion that has been carried into effect, and a very nice room it is, which I commend to the attention of those who have not been up to see it. We were all delighted to hear Mr. Dixon pronounce himself so emphatically at our Annual Dinner and I hope the bursary will soon become an established fact. Mr. Clark made a suggestion regarding the library. That is a matter which will receive immediate attention; it only wanted the suggestion in order to have it carried out. Mr. Clark also referred to topics of interest. We shall always be pleased to receive communications from members on topics of interest to embody in the Transactions at any time. I thank you all on behalf of the Office Bearers and Council.

Mr. RUTHVEN: I would like to propose that our Secretary write to Mr. Lawrie to the effect that the Institute is not the same when he is away. He is one of our oldest friends and I do not like to miss old friends.

CHAIRMAN: I am sure Mr. Adamson will communicate the feeling of this meeting to Mr. Lawrie.

The HONORARY SECRETARY : We have just received a reply to the telegram which we sent at the beginning of this meeting. It reads as follows : “ The London Dunbartonshire Association sends greetings and best wishes to the Institute of Marine Engineers and its President Elect. Cormack.”

CHAIRMAN : I will now call upon the Scrutineers to make their report.

Mr. P. SMITH, on behalf of Mr. F. M. Timpson and himself, said :—As Scrutineers we have carefully examined the voting papers sent in, with the result that the following Office Bearers have been elected by a practically unanimous vote :

President : Mr. James Denny.

Hon. Treasurer : Mr. A. H. Mather.

Hon. Secretary : Mr. Jas. Adamson.

Hon. Financial Sec. : Mr. E. W. Ross.

Hon. Minute Sec. : Mr. J. G. Hawthorn.

As regards the members of Council elected, we have arranged their names according to their numerical value in votes :—Messrs. Frank Cooper, R.N.R., A. E. Battle, John McLaren, J. Lang, J. E. Elmslie, J. F. Redman, P. T. Campbell and J. T. Milton. I may add that those members who stood for re-election have been all returned, and Mr. Belloch's place is taken by Mr. J. T. Milton.

CHAIRMAN : You have heard the result of the scrutiny of the ballot papers and I think it is very satisfactory. The whole body of the members of the Institute will be very glad indeed to know that Mr. Milton is a Member of Council, and I think it is very gratifying to the Institute to have Mr. Milton, not only as a member, but as a Member of Council.

Mr. FARENDEN : In the absence of Mr. Battle I have very much pleasure in proposing a vote of thanks to Messrs. Smith and Timpson for their services. This work of scrutineering requires time and also requires careful work, and I have much pleasure in proposing that we accord them our heartiest thanks.

Mr. J. McLAREN : I have pleasure in seconding this vote of thanks. The scrutineers do their work in the dark and we

only see the results of what has required time and labour on their part.

The vote was carried with acclamation.

Mr. E. W. ROSS : I have much pleasure in proposing a vote of thanks to the Hon. Auditors. From what Mr. Clark has said to-night we see that although he goes about his work quietly, still he is a man of energy in the work of the Institute and it gives me much pleasure in proposing this vote of thanks.

Mr. J. G. HAWTHORN : It is with very great pleasure indeed that I second that vote of thanks.

The vote was carried with acclamation.

Mr. T. F. AUKLAND (Companion) : I am sure we shall all be most ready to give a very hearty vote of thanks to our esteemed friend, Mr. Boyle, who has so kindly taken the chair to-night. For the able manner in which he has conducted the duties of the chair, for the wise words which have fallen so frequently from his lips, I think he deserves our very heartiest thanks, and I am sure you will all agree very warmly in showing your true appreciation of his valuable services.

Mr. SHARP : I have much pleasure in seconding that.

The vote was carried with hearty applause.

CHAIRMAN : Thank you very much. I am greatly indebted to Mr. Auckland for his kind words, and I think I ought to propose a vote of thanks to the members for their kindness. I am very pleased to do anything I can in connection with the Institute; I am amply repaid if I can be of use in any way. There were one or two things I intended to say, but perhaps I shall have the pleasure of saying them on a future occasion, as I am informed there are coffee and refreshments to follow.

The proceedings then terminated.



MEETINGS HELD DUR

DATE.	NO. OF PAPER.	SUBJECT.
1907.		
February 4	137	Oil Fuel on Shipboard.. .. .
„ 11	—	Lecture. Boiler Construction (Junior Section) ..
„ 15	—	Bohemian Concert
„ 18	137	Adjourned Discussion. Oil Fuel
„ 25	—	Lecture. Electricity. (Junior Section)
March 4	138	High Speed Two-stroke Engines
„ 11	—	Lecture. Engine Construction. (Junior Section)..
„ 18	138	Adjourned Discussion. High Speed Two-stroke Engines
„ 22	—	Bohemian Concert
„ 25	—	Lecture. Electricity. (Junior Section)
April 5	—	Annual Meeting and Dinner to Representatives from New Zealand
„ 8	—	Lecture. Self Help
„ 15	139	Salinometry
„ 20	—	Visit to the Works of Messrs. D. Kirkaldy & Son ..
June 1	—	Visit to Works of Messrs. Vickers, Sons & Maxim ..
„ 15	—	Visit to the London Hospital.. .. .
July 13	—	Visit to Locomotive Works of Great Eastern Railway
August 24	—	Visit to Works of Messrs. A. G. Mumford, Ltd. ..
September 27	—	Tennis Club Social
„ 28	140	New Methods of Effecting Boiler Repairs
„ „	141	Ventilation, Heating and Berthing
October 7	—	President's Address and Presentation of Gold Medal
„ 11	—	Bohemian Concert
„ 14	142	Marine Turbine Lubrication
„ 21	—	Lecture. External Perception
„ 28	143	Repairs to Hull of Iron and Steel Ships
„ 30	—	Annual Dinner
November 4	—	Fuel Testing
„ 8	—	Bohemian Concert
„ 11	140	Adjourned Discussion. Boiler Repairs
„ 18	144	Repairs to Machinery
„ 25	—	Lecture. The Doctrine of Descartes
December 2	141	Adjourned Discussion. Ventilation, Heating and Berthing
„ 6	—	Bohemian Concert
„ 9	—	Lecture. The Early Days of Marine Insurance ..
„ 16	f 143	Adjourned Discussion on Repairs to Ships and
„ 31	144	Machinery
„	—	Social Evening and Dance
1908.		
January 6	145	Modern Contrivances in the Stokehold
„ 13	—	Lecture. Roller Bearings
„ 20	145	Adjourned Discussion. Modern Contrivances in the Stokehold
„ 24	—	Conversazione and Ball
„ 27	146	Design of Suction Pipes

ING SESSION 1907-8.

AUTHOR.	CHAIRMAN.	WHERE HELD.
Graydon Hume	W. Lawrie	58, Romford Road
J. G. Hawthorn	W. E. Farenden	Do. do.
F. Cooper, R.N.R.	T. F. Aukland	Do. do.
—	W. C. Roberts, R.N.R.	Do. do.
A. E. Battle	—	Do. do.
T. D. Kelly	W. McLaren	Do. do.
J. G. Hawthorn	—	Do. do.
T. D. Kelly	F. Cooper, R.N.R.	Do, do.
D. Hulme, Convener	—	Do. do.
A. E. Battle	—	Do. do.
—	Lord Pirrie	Hotel Cecil, Strand, W.C.
T. F. Aukland	W. Lawrie	58, Romford Road
Jas. Shirra	J. G. Hawthorn	Do. do.
—	—	Southwark, S.E.
—	—	Erith
—	—	Whitechapel Road, E.
—	—	Stratford, E.
—	—	Colchester, Essex
J. H. Redman, Convener	—	58, Romford Road
H. Ruck Keene	Capt. H. R. Sankey	Engineering and Ma- chinery Exhibi- tion, Olympia
A. E. Battle	Sir Alex. B. W. Kennedy, LL.D., F.R.S.	Do. do.
—	Jas. Knott, Esq., President	58, Romford Road
Jas. Adamson & F. Cooper	W. Lawrie	Do. do.
A. H. Mather	W. Lawrie	Do. do.
Jas. Adamson, Hon. Sec.	A. Boyle	Do. do.
R. Elliott, B.Sc.	John Clark	Do. do.
—	Jas. Knott, Esq., President	Holborn Restaurant
W. McLaren, Convener	—	58, Romford Road
Geo. Adams, Convener	Jas. Adamson, Hon. Sec.	Do. do.
H. Ruck Keene	W. Lawrie	Do. do.
R. Elliott, B.Sc.	J. E. Elmslie	Do. do.
Jas. Adamson, Hon. Sec.	A. Boyle	Do. do.
A. E. Battle	E. W. Ross	Do. do.
J. Fell Redman, Convener	J. Robertson	Do. do.
T. F. Aukland	Jas. Adamson, Hon. Sec.	Do. do.
R. Elliott, B.Sc.	W. Lawrie	Do. do.
J. G. Hawthorn and J. Lang, R.N.R.	—	Do. do.
J. C. Brand	W. Lawrie	Do. do.
G. B. Woodruff	W. Lawrie	Do. do.
J. C. Brand	W. Lawrie	Do. do.
F. Cooper, R.N.R., Convener	—	Holborn Restaurant
Jas. Anderson	W. Lawrie	Do. do.

ADDITIONS TO THE LIBRARY 1907-8.

SUBJECT.	PRESENTED BY
Notes on Boiler Construction. By E. G. Hiller	The Author
Gas Turbines. By R. M. Neilson ..	The Author
Calendar, University College of S. Wales, 1906-7	The Senate
Clyde Passenger Steamers from 1812 to 1901	Andrew Spiers
Transactions of Institution Mechanical Engineers	The Council
List of Members of Do., 1907-8 ..	Do.
Text-book of Science, Theory of Heat	F. F. Eversfield
LocI in Mechanical Drawing, Part II..	Do.
The Steamship, Vol. 18	J. Lockie
The Marine Engineer and Naval Architect, Vol. 29	The Editor
Transactions of The Liverpool Engineering Society, Vol. 29	The Council
Transactions of The Institution of Naval Architects, Vol. 49	Do.
The Sins of the Fathers. 2 Vols. By Mrs. Jas. Macdonald	The Author
In the First Watch. By Jas. Dalziel	Do.
Transactions N.E. Coast Inst. Engineers and Shipbuilders, Vol. 23	The Council
Calendar, University College of London	The Senate
Supplementary Catalogue West Ham Library	Purchased
Engineering Standards, Third Report	The Committee
Bulletin De l'Association Technique Maritime, Vol. 18	The Council
Cassier's Magazine, Gas Power Number	Purchased
Official Year Book of Scientific and Learned Societies	Do.
Transactions of Engineers and Shipbuilders in Scotland	The Council
Whitaker's Almanack for 1908 ..	Purchased

ADDITIONS TO THE LIBRARY, 1907-8—*Continued.*

SUBJECT.	PRESENTED BY
The Marine Steam Turbine. By J. W. Sothorn	G. Small
Our Heritage the Sea. By F. T. Bullen	Do.
Coal, and what we get from it. By R. Meldola, F.R.S.	Do.
Time and Tide. By Sir Robt. Ball, F.R.S.	Do.
The Machinery of the Universe. By A. E. Dolbear	Do.
Analysis of Rotary Motion. By Major J. G. Barnard	Do.

READING ROOM.—PAPERS AND MAGAZINES

SUBJECT.	PRESENTED BY
Lloyd's Register, 1905-6	Purchased
Scientific Societies' Year Book	do.
Engineering	do.
The Engineer	do.
The Illustrated London News	do.
The Graphic	do.
The Shipping Gazette (Weekly)	do.
The Navy List, 1908	do.
The Stratford Express	do.
The Syren and Shipping	do.
The Steamship	do.
The Electrical Review	do.
The Mechanical Engineer	The Proprietors
The Practical Engineer	do.
The Mariner	do.
The Shipping World	do.
Ice and Cold Storage	do.
Cold Storage	do.
The Mechanical World	do.

READING ROOM—*Continued.*

SUBJECT.	PRESENTED BY
Iron and Coal Trade Review	The Proprietors
The Engineer and Iron Trade Advertiser	do.
The Automotor Journal	do.
International Marine Engineering, U.S.A.	do.
The Sibley Journal of Mechanical En- gineering	do.
The Electric Accumulator	do.
Page's Weekly	do
Punch	Purchased
Transactions of The American Society of Civil Engineers	The Council of the Society
Transactions of The Institution of Mechanical Engineers	The Council of the Institution
The Marine Engineer and Naval Architect	The Proprietors
Transactions of the Institution of En- gineers and Shipbuilders in Scotland	The Council of the Institution
Transactions de Société Ingénieurs Civil de France	The Council of the Society
Bulletin de l'Association Technique Maritime	The Council of the Association
West Ham Library Notes	The Librarian
The Engineering Times	The Proprietors
Reports on Boiler Explosions	The Board of Trade
The Engineering Record	The Proprietors
South African Engineering	do.
Machinery	Mr. F. Cooper
Gas and Oil Power	The Proprietors
Engineering News	Purchased
The Shipbuilder	Do.
The Scottish Field	Mr. J. Weir
The Liverpool Journal of Commerce (Daily)	Do.
Monthly Report, Marine Engineers' Association	The Association
The Daily Report	The Proprietors

ADDITIONS TO PROPERTY.

DESCRIPTION.	PRESENTED BY
3 Blades of Saw Fish for Museum ..	W. Davies.
1 Side Sword (Somali) for Museum..	Do.
1 Bow and Arrows in Case, for Museum	Do.
1 Lawn Mower	Purchased
2 Tea Trays.. .. .	Do.
1 Duplicator	Do.
16 ft. $\frac{1}{4}$ in. Flexible Gas Tubing.. ..	Do.
1 Model Blade of Propeller	Jas. Adamson
Model of Hyatt's Roller Bearings ..	Hyatt Roller Bearing Co.
1 Electric Bell connected with Swing Door	Purchased and fitted
1 Illuminated Name Sign above en- trance	Do.

EXPERIMENTAL DEPARTMENT.

It is proposed to purchase several instruments and electrical apparatus with the donations which have been received to carry on the work of this department. The major part of the donations has been contributed by those for whose benefit special fuel tests were conducted by the Committee on several successive evenings to obtain reliable data. Undernoted is a list of the present stock—

APPARATUS	PRESENTED BY
Calorimeter—Thompson	J. McFarlane Gray
Operating Table and Trestles	Jas. Adamson
Scales for Weighing Samples	Purchased
Calorimeter—Darling	„
Oxygen Cylinder	„
Lantern and Screen	„
Apparatus for Testing Water	Babcock & Wilcox
Measuring Glasses	Purchased
Solutions and Chemicals	„
Orsat's Gas Analysis Plant	E. W. Green

INSTITUTE OF MARINE ENGINEERS

INCORPORATED.

Founded February, 1889.

Incorporated July, 1889.

Session 1907-8.

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