

The Institute of Marine Engineers

76 Mark Lane, London EC3R 7JN

Annual Report of the Council for the year ended 31st December 1972 and accounts for the year ended 30th September 1972



INTRODUCTION

1972 has been a year of laying plans for future developments of the Institute and its services against the background of inflation culminating in the Government's "freeze" which will have substantial effects upon certain sections of the Institute's income, notably, in the first instance, rates relating to advertisements, the page rates for which are due to be increased on 1 January 1973.

Events can be seen in detail sections of the report for a year of great activity both in London and particularly for the branches and divisions.

Council is always happy, in presenting its report of the year's work, to include a sincere expression of gratitude to the many members who have done so much to make its activities possible including those who have served on Committees, those who have reviewed books, authors and contributors and division and branch officers.

DIVISIONS AND BRANCHES

Divisions

Draft divisional constitutions were considered by all three divisions and will be discussed further at co-ordinated Divisional Conferences to be held in early 1973. Extra expenditure was agreed for the holding of these co-ordinated Divisional Conferences during 1973 each of which will be attended by a representative from London.

A new system of overseas branch financing has been devised and implemented.

The Australia/New Zealand Division held a two day symposium in September on "Training for Work at Sea".

Branches

Resulting from the meeting of branch chairmen and secretaries on 10 March, a new system of branch administration in which the branches had the option of providing services themselves or these being provided at cost by the Institute was devised and implemented later in the year. The Royal Institution of Naval Architects subsequently agreed to align its system of branch grant financing for the two U.K. joint branches with that of the Institute.

California

In July, the Chairman, Vice-Chairman, Secretary and Honorary Treasurer of the California branch resigned and requested winding up of the branch because of the "near impossibility of making the branch even barely survive." Audited accounts were received and committee members thanked. This event is much regretted and is the only branch ever to make such a request.

Canberra

A Canberra sub-branch of the Sydney Branch was formed in Australia.

Victoria

The By-Laws of the Victoria (Australia) Branch were amended in April 1972.

Sydney

The Sydney branch had its name changed at its request to the New South Wales Branch in view of the fact that it had responsibility for two sub-branches and to make it conform with other branches in Australia which were named after States rather than cities.

Bangladesh

Council agreed that the establishment of a branch in Bangladesh should follow the normal course of events and should be formed if and when local members gathered sufficient support in accordance with branch rules.

West of England

A Western Joint Branch with the Royal Institution of Naval Architects was formed and the existing West of England Branch of the Institute disbanded.

Holland

In February a reception was held at the Hilton Hotel, Rotterdam, for members of the Institute resident in Belgium and the Netherlands. At the suggestion of the Netherlands members the possibility of forming a branch was further considered and having held a meeting in November in Amsterdam a questionnaire was sent to all members in the Netherlands as a result of which it was agreed that a branch be formed. There are at present 91 members in Holland.

Plans have been made to hold a technical meeting in Holland in March 1973.

BY-LAWS

At the Annual General Meeting on 25 April 1972, revised draft By-Laws were approved by the members and a Resolution passed to implement these on 1 November 1972, should Privy Council approval be obtained.

Some difficulties arose and the Privy Council were unable to accept all the proposals for the revision of the By-Laws. Council agreed in October that procedures for elections to Council, nomination of officers etc. for 1973/74 should be in a form appropriate to the present constitution.

The By-Laws were not approved by the end of the year but it was clear that the problems were being resolved.

INDUSTRIAL RELATIONS

In the light of the new legislation, the Institute recognized that members might belong or wish to belong to a Trade Union and that individuals should be free to do so if they wished. The incorporation in the By-Laws of a code of conduct within the Institute need not result in a conflict between a member's professional obligations resulting from his membership of the Institute and his membership of a Trade Union.

The position of C.E.I. and its constituent members with regard to the Special Register set up under the Industrial Relations Act and the effect of registration on charitable

Annual Report of the Council for 1972

status involved much discussion during the year but the position has now been resolved in that the Institute as a professional learned society is unable either itself or through C.E.I., to register on the Special Register.

EDUCATION AND TRAINING

During the year the Education and Training Committee examined and made recommendations concerning Institute representation on and participation in the work of the National Certificate and Diploma Joint Committees. In the event, the recommendations were overtaken by Government proposals for the formation of a Technician Education Council in which a prominent part would be played by the City and Guilds of London Institute. Following this announcement a letter was sent to the Department of Education and Science, expressing the Institute's concern that the professional institutions had not been involved in the discussions at an early date, and that technical education should not suffer in quality through being removed from the close association which it had hitherto held with the professional engineering institutions.

Towards the end of the year, it was recognized that there were many problems in professional and technical education in marine engineering, and that the Institute would do well to examine these. This it is doing in collaboration with other C.E.I. institutions similarly affected.

MEMBERSHIP

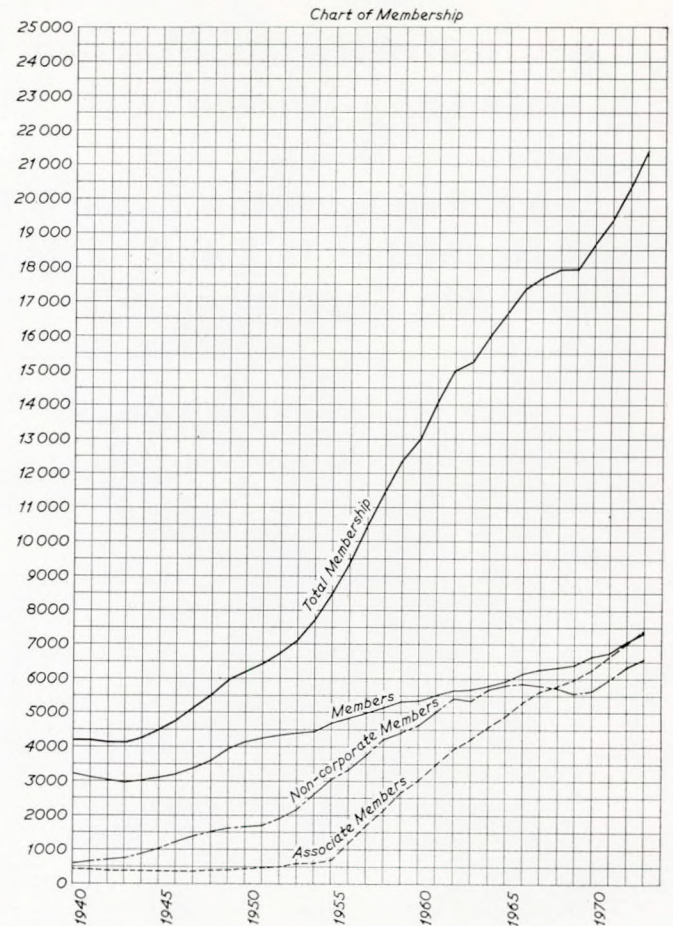
There was a general increase in the number of members who resigned, or whose membership lapsed during the year, and a greater increase in the numbers elected, resulting in an overall increase of 809.

The resignations and lapses of membership from the Student and Probationer Student classes continued at the unsatisfyingly high rate referred to in the Annual Report for 1971, and the number of Associate Members who lapsed during the year has almost doubled. This is probably the delayed effect of a subscription increase in 1970.

Despite this adverse effect, the numbers newly elected have risen, and the Institute membership continues to maintain a satisfactory growth rate.

Membership totals have continued their upward trend, though at a rate slightly less than during 1971. At the end of the year, there were 21 237 on the Membership Roll.

The chart and table of membership totals appear on this page.



Reciprocal Membership

A provisional agreement with SNAME to amend the terms of the reciprocal membership agreement to fall in line with the Institute's revised By-Laws was agreed.

MEMBERSHIP TABLE

	Total 31 Dec. 1971	Transfer						Total 31 Dec. 1972	Increase or decrease during 1972
		To	From	Elected	Died	Resigned	Lapsed		
Members	7066	191	—	236	90	65	48	7290	224 +
Associate Members	7020	261	181	413	15	29	92	7377	357 +
Companions	12	—	—	—	—	5	—	7	5 —
Associates	1658	6	48	190	7	28	54	1717	59 +
Graduates	1204	90	176	158	—	13	31	1232	28 +
Students	2231	15	123	428	1	51	165	2334	103 +
Probationer Students	1216	—	35	213	—	45	90	1259	43 +
Honorary Members and Past Presidents	21	—	—	—	—	—	—	21	—
Totals	20 428	563	563	1638	113	236	480	21 237	809 +

Annual Report of the Council for 1972

SUBSCRIPTIONS AND ENTRANCE FEES

Annual subscriptions were increased from 1 November 1972 to £11.00 for all classes with a 50 per cent reduction for all those either retired from remunerative service or below the age of 22. The subscription rates are inclusive of Engineers Registration Board registration fees.

Entrance fees were increased with effect from 1 February 1972.

LEARNED SOCIETY FUNCTION

a) *Technical Meetings in London*

During the year, eleven ordinary meetings were held, in addition to the Presidential address. On 20 June a joint one-day meeting with the Royal Institution of Naval Architects was held at the Institute on The Prevention and Control of Fires in Ships.

b) *Specialist Sections*

The Materials Section held a one-day Symposium on 10 May.

A series of lunchtime lectures was arranged by the Business Management Specialist Section. This began most successfully but audiences towards the end of the series were disappointingly small. A further series is planned for 1973.

c) *Meetings in Branches*

A full programme of interesting meetings was arranged by the Branches. It is regretted that few of these valuable contributions are available for publication, although Council accepts that the preparation of manuscripts is a time-consuming task.

PUBLICATIONS

i) *Marine Engineers Review*

During 1972 a total of 1088 pages (excluding covers) was published in *Marine Engineers Review*. This is a noticeable increase over the 1032 pages published in the previous year—the more so as the number of pages published in March 1972 had to be severely limited in view of the then power crisis.

From the editorial viewpoint, however, the main effort has been directed to improving quality rather than increasing volume. These efforts have been assisted by the availability for publication of a number of worthwhile technical papers previously presented at Branch and Division meetings. At the same time steps have been taken to widen the international news coverage of the journal which include reaching informal but effective arrangements for the exchange of information with certain overseas marine publications.

There are several encouraging indications of the journal's growing reputation, including an increasing readiness amongst figures prominent within the industry to make themselves available for in-depth interviews and an apparently increasing tendency to find *Marine Engineers Review* cited as a reference source.

During the year moves have been made to improve the service offered by the Marine Engineering and Shipbuilding Abstracts by integrating the abstraction of material for publication with that for the library information retrieval service.

Overseas Marine Engineers Review has continued to be published during the year as a means of keeping members overseas in touch with the Institute without the inevitable time lag involved in sea mail posting of *MER*.

ii) *Transactions*

Volume 84 of the *Transactions* was published in 16 separate parts throughout 1972 and, as well as the 12 session papers and their discussions, included the papers and discussions of four specialist section symposia organized by the Vibration, Ocean Engineering, Marine Electrical Engineering

and Materials Section Sub-committees. The proceedings of an all-day conference, arranged by the Business Management Section Sub-committee, were also printed in the *Transactions*. The Presidential Address of Vice-Admiral Sir George Raper, K.C.B., C.Eng., M.I.Mar.E., was published in Part 14 of the volume.

In addition to the *Transactions*, two other volumes of technical proceedings were published:

- a) the proceedings of a three-day conference, organized by the Institute on behalf of the Joint British Committee for Stress Analysis and held in April 1972; the volume contains 29 papers with their discussions;
- b) the proceedings of a one-day symposium on the Prevention and Control of Fires in Ships, organized jointly by the Institute and the Royal Institution of Naval Architects, comprising six papers and discussions.

The total number of technical papers and discussions published as proceedings in 1972 was 69, taking up 884 pages of print. The issue of advance copies of papers, prior to all meetings, involved a further 660 pages of print.

In view of the impending metrication of engineering units of measurement, such units given in papers and discussions were, with few exceptions, presented in S.I. units with Imperial equivalents. Where the exceptions occurred, conversion tables were published in lieu.

From the beginning of 1973, *Transactions* will be issued in two series, Series A being the proceedings of ordinary and specialist sections meetings of the Institute which will be sent automatically to members on payment of an annual registration fee of £1.00, or as individual copies on request without charge, and Series B relating to conferences and symposia.

iii) *Journal of Technical References*

A new publication, in conjunction with Lloyd's Register of Shipping and based upon existing information cards held in the library being an extension of the existing abstracts—*Journal of Technical References*—was agreed to be published in 1973.

iv) *Books*

A new book, *Medium and High Speed Diesel Engines for Marine Use* by S. H. Henshall, B.Sc. (Eng.), C.Eng., M.I.Mar.E., was published during the year.

JOINT BRITISH COMMITTEE FOR STRESS ANALYSIS

The Institute organized a most successful conference on behalf of the J.B.C.S.A. Conference Committee from 5 to 7 April.

LIBRARY

A complete re-arrangement of the abstracts/information retrieval system was made during the year to improve the service.

FINANCE AND ACCOUNTS

The key to a full understanding of the 1971/72 Accounts is inflation. Whilst the retail price index rose by 6.5 per cent in the period covered by the Accounts and by 7 per cent during 1972, the Institute was faced with very much higher increases in large areas of expenditure. Thus, for example, journal printing prices increased by 24 per cent and postage charges by 18 per cent (making a total of 95 per cent within a 13-month period). Against such unprecedented increases in costs some 47 per cent of the Institute's income was derived from membership subscriptions and some 21 per cent from rents at rates fixed at 1970 and 1958 values respectively; this left 32 per cent from sales and dividends which kept in line with inflation.

Annual Report of the Council for 1972

In terms of membership subscription rates, the position was reached by the middle of 1972 whereby the marginal costs of servicing each new member were about equal to the average rate of annual subscription. Council therefore had no alternative but to increase membership subscription rates with effect from 1 November 1972. The Council's action was intended both to deal with the immediate situation (as now witnessed by the 1971/72 deficit of £8000) and for at least the next three years subject to inflation being brought under control.

1972 saw another period of intensive improvement of the services provided by the Institute both to the member and the profession. Members will be aware of many of the changes made, e.g. an improved grants structure for branches; the automatic registration service for *Transactions*; the ever improving editorial content of *Marine Engineers Review*; the new series of Business Management lunchtime meetings; the several new text books recently announced and the new Journal of Technical References. Many members will perhaps be unaware of certain other changes—e.g. the change in paper used to print *Marine Engineers Review* (saving 25 per cent of costs of paper); the negotiation of a contract with the Post Office to reduce the increase in postal charges; the strict control, reducing overhead expenditure (often activated by junior staff) and of cash flow to release cash to earn its keep in terms of interest received.

The above changes are of course fully reflected in financial terms in the accounts—in particular the increased expenditure on technical services which reflects not only the effects of inflation but also the costs of the improved service provided. The continuing growth in membership is reflected in the increase in membership subscription income. The success of the publications sales drive is reflected in the increased income gained from both sales of journals and books and from advertisements—the latter being completely against market trends.

In respect of income and expenditure Council is determined to maintain subscriptions at comparatively low levels (currently they are still the lowest of any member of C.E.I. and the gap has recently increased) and increase the quality, quantity and scope of services provided by strict financial control to obtain maximum benefit per £ expended coupled with maximization of returns on all assets and by the maximization of beneficial income from sources other than members' subscriptions.

Council has succeeded in such policies in the past and sees no reason for failure in the future in those areas which are under its control.

WEST EUROPEAN CONFERENCE ON MARINE TECHNOLOGY 1974

The Institute has undertaken jointly to organize with the Royal Institution of Naval Architects, Schiffbautechnische Gesellschaft e.V., Association Technique Maritime et Aeronautique and the Royal Netherlands Institution of Engineers, a West European Conference to be held in 1974 in the Hague.

INTERNATIONAL MARINE ENGINEERING SYSTEMS CONFERENCE (IMESC)

The Institute was invited to participate in establishing an international organization for marine engineering based in Norway, but declined the invitation because it felt that the proposed organization could not best be served by a body constituted as was the Institute.

OFFICERS

Vice-Admiral Sir George Raper, K.C.B., succeeded Mr. Rupert Munton, C.B.E., as President in April. Council elected Mr. R. L. Rawlings as Chairman of Council for 1972/73 session and Dr. S. Archer as Vice-Chairman of Council.

During the year other changes in office holders were:

Rear Admiral S. Z. Hasnain resigned as Vice-President for Pakistan;

Mr. W. J. Ferguson, M.Eng., was appointed Honorary Vice-President;

Corresponding Members

Greenock: Mr. A. M. Kerr, C.Eng., M.I.Mar.E., elected corresponding member for Greenock in February 1972.

Grimsby: Mr. J. Campbell, C.Eng., M.I.Mar.E., elected corresponding member for Grimsby in February 1972.

Indonesia: Mr. F. M. Judson, C.Eng., M.I.Mar.E., appointed corresponding member for Indonesia.

STAFF

Mr. A. E. Franklin and Mr. A. Parsons completed 15 years service with the Institute during the year.

Mr. D. Beaumont-Wright was appointed as Public Relations Officer.

Mr. H. W. Paar was appointed as technical information officer.

Mr. J. C. Phillipson was appointed as Accountant.

The Industrial Relations Act came into effect on 28 February as a result of which all members of staff agreed "Conditions of Service." A new staff pension scheme was brought into operation during the year.

Mr. L. K. Morelli, Assistant Secretary Finance, became Honorary Treasurer of the Association of Learned and Professional Society Publishers.

MEMORIAL BUILDING

As a safeguard to the working capacity of the Institute a Diesel electric generator was installed to provide emergency power supplies should this be necessary. It has been agreed that the centre well of the concourse area be filled in to provide greater flexibility of use of the first floor area.

COMMITTEE STRUCTURE

The business, constitution, operation and membership of the Office Bearers Nomination Committee was revised during the year.

TELEX

A telex was installed at the Institute, the number being 886841.

EUROPORT

Following the success of the Institute's participation in Europort 71, the Institute again had a stand at the exhibition in 1972, the outcome of which from the public relations, advertising, editorial, sales and prestige points of view was very successful. The 1972 stand was an infinite improvement on that of 1971 in its position, design and standard of finish.

The Director and Secretary's membership of the Europort Advisory Board brought with it attendance at all the main events including acting as host at the opening ceremony which provided opportunity for contact with many influential people.

Council has agreed that the Institute should organize part of the congress attaching to the Europort 73 exhibition in November 1973.

THE JOINT POLICY COMMITTEE (consisting of the Institute, the Institutions of Mechanical and Production Engineers together with the Royal Aeronautical Society and the Royal Institution of Naval Architects).

Professor J. L. M. Morrison (Institution of Mechanical Engineers) succeeded Mr. B. Hildrew, M.Sc., as Chairman

Annual Report of the Council for 1972

of the Committee. Mr. Hildrew continues on the Committee representing the Institute and others.

ENGINEERS REGISTRATION BOARD

Dr. J. Cowley and Mr. G. R. Hodge were nominated to represent the Institute on the Technician Engineer Section Board and Technician Section Board of the Engineers Registration Board.

At 30 September 1972, 29 bodies had been admitted to membership of the Technician Engineer Section and 17 to the Technician Section, and a number of applications are still being processed.

COUNCIL OF ENGINEERING INSTITUTIONS

The Institute's subscription to C.E.I. for 1972 was £7674. Membership of constituent institutions in 1971 and 1972 was:

	1971	1972	C.E.I. % increase/ decrease	Institute % increase/ decrease
Corporate	184 299	192 167	+4.3	+3.4
Non-corporate	122 081	120 000	-1.7	+5.2
	<u>306 380</u>	<u>312 167</u>		

Officers

Sir Arnold Lindley served as Chairman for the year, Mr. T. A. L. Paton being Vice-Chairman of Council.

Code of Professional Conduct

A revised Code of Conduct was approved by the Board in July.

E.E.C.

A Committee to advise the Board on policy towards the European Economic Community has been set up, the Director and Secretary representing the Institute and the implications of the legislation now being enacted are being studied. C.E.I. is active overseas through its membership of the Commonwealth Engineering Conference, the European Federation of Associations of Engineers, and other international organizations.

Survey of Professional Engineers

The 1971 Survey of Professional Engineers, which was organized under the Chairmanship of Mr. B. Hildrew, M.Sc., conducted and published in well under a year, was successfully introduced at a press conference in January 1972. A working party has been set up to study the utilization of engineers and the future intake into the profession. It is hoped that further surveys will be carried out at two yearly intervals.

Nomenclature

A working party under the Chairmanship of Mr. T. A. L. Paton, set up to discuss Nomenclature and the uses of titles and designatory letters, recommended that C.E.I. constituent institutions should standardize their Nomenclature over the next three years.

Implementation of this policy, which was agreed by the Board in July, is still being discussed.

Secretaries Committee

A committee of secretaries of constituent institutions has met under the Chairmanship of Mr. A. G. Higgins, Secretary of the Institution of Gas Engineers.

In addition to discussions on E.E.C. matters, state registration, industrial relations etc. the Committee is initiating comparative review of institutions finance and staffing.

MacRobert Award

The MacRobert Award Lecture inaugurated in 1971 was given in May 1972 by two members of the Gas Council prize winning 1971 team, Dr. D. Hebden and Dr. G. Percival.

The 1972 MacRobert Award, Gold Medal and cash prize of £25 000 was awarded for an EMI X-ray technique, developed by Mr. Godfrey Hounsfeld.

Anniversaries

During 1972 four member institutions celebrated anniversaries of their foundations. C.E.I. presented clocks to mark the centenaries of the Institutions of Electrical and Municipal Engineers, the Golden Jubilee of the Institution of Production Engineers, and the 50th anniversary of the Institution of Chemical Engineers.

British National Committee on Ocean Engineering

Commander M. B. F. Ranken was nominated to replace Mr. G. C. Eddie, B.Sc., as the Institute's representative during the year.

Certificates

During the year, 747 corporate members of the Institute were issued with certificates of registration as Chartered Engineers and registration cards.

Examinations

Two members of the Institute have passed the whole or part of Part 1 and two members of the Institute passed the whole or part of Part 2.

Terotechnology

On 24 May 1972, C.E.I. and the Department of Trade and Industry Committee of Terotechnology sponsored a symposium on terotechnology which was organized by the Institutions of Mechanical Engineers and Plant Engineers. The conference was opened by H.R.H. Prince Philip and the Institute participated.

Terotechnology is defined as "the technology of installation, commissioning, maintenance, replacement and removal of plant, machinery and equipment, of feed-back of information to design and operation thereof, and of related subjects and practices."

Council for Environmental Science and Engineering

C.E.I. and the Council of Science and Technology Institution (CSTI) have set up a Council for Environmental Science and Engineering (CESE) to promote and co-ordinate its interdisciplinary activities among their constituent members and other established scientific and engineering organizations.

Graham Clarke Lecture

Sir Norman Rowntree delivered the 18th Graham Clarke lecture on "The Conservation and Use of Water Resources" on 2 October.

IMAS 73 AND IMEX 73

Good progress is continuing to be made with the arrangements for IMAS 73 and IMEX 73. H.R.H. Prince Philip has agreed to be Patron of IMAS 73.

DEATHS

Amongst those who died during the year were:
Dr. S. F. Dorey, who was President of the Institute in 1951/52.

Sir Ronald Garrett, who was President of the Institute in 1957.

Mr. H. A. J. Silley, who died in May in a light aircraft crash in the Isle of Wight. Mr. Silley was President of the Institute for two years in 1954 and 1955 during which time he was also Chairman of the Memorial Building Committee.

Annual Report of the Council for 1972

Mr. Silley together with his late brother and late father was, throughout his business life, most closely associated with the Guild of Benevolence. His support of the Institute and of its endeavours did much, particularly during the post war years, to help to lay the foundations upon which so much has now been built.

Mr. A. G. Pemberton, who had been a Member for 37 years, a Vice-President for the United Kingdom since 1968, previously having been Southampton Vice-President of the Institute. He served on Council, Membership and C.E.I. Committees.

Mr. Victor Wilkins, Companion of the Institute. Mr. Wilkins was the architect for the premises in the Minorities occupied from 1914-1957. He was the consultant architect for the Memorial Building in Mark Lane. Mr. Wilkins supported the Institute in a number of ways including the Guild of Benevolence.

SOCIAL EVENTS HELD IN LONDON

The following social functions have been held:

Annual Dinner at Grosvenor House on 10 March, attendance 1511.

Charity Ball at Grosvenor House on 12 May, attendance 367.

Cocktail Party following Presidential Address at the Institute on 3 October, attendance 149.

Conversazione at Grosvenor House on 1 December, attendance 936.

Conversazione at Grosvenor House on 15 December, attendance 1044.

LONDON AND HOME COUNTIES JUNIOR COMMITTEE

There have been six student meetings in the year and the Lloyd's Register of Shipping Award was held in March.

HONORARY LIFE MEMBERS

A luncheon of the Council Dining Club was given in January at which those able to be in London who had been members of the Institute for 50 years in 1971 were awarded their Honorary Life Membership Certificates.

The following were elected to Honorary Life Membership during the year:

Mr. R. J. T. Bond

Mr. D. W. Freemantle

Mr. J. Petrie

Mr. E. Shaw

Mr. B. W. Lund

Mr. R. L. Pughe

Lt. Cdr. A. E. Buck, R.N.

Mr. C. W. Jones

Mr. J. H. Ellis, O.B.E.

Mr. A. A. Mair

Mr. W. Simons

Mr. A. Graham, O.B.E.

Mr. W. E. Johnstone

Mr. R. W. Thompson

Mr. C. R. Paterson

Mr. C. H. Harris

Mr. R. J. Easthope

Mr. S. C. Hughes

Mr. D. H. Alexander, O.B.E.

Mr. A. J. MacKenzie

Mr. R. Lawrence

Mr. A. G. Tyler

HONOURS AND AWARDS

The following honours have been awarded to members of the Institute:

Sir Cyril English—Kt.

Mr. J. H. Kirby—C.B.E.

Mr. R. Munton, B.Sc.—C.B.E.

J. Woodeson—C.B.E.

Cdr. J. D. J. Hawksley, R.N.—O.B.E.

Cdr. P. T. Bryant, R.N.—O.B.E.

Cdr. P. J. S. Coombes, R.N.—O.B.E.

Mr. Ernest Gilbert—M.B.E.

Mr. J. H. Gilbertson—M.B.E.

INSTITUTE GRANTS FOR EDUCATION PURPOSES

During the year sixty-four students taking the Marine Engineering Degree courses at the Universities of Newcastle and Surrey, and nine taking Extra First Class Certificate courses at the technical colleges at Poplar and South Shields, were in receipt of Institute grants, and at the end of the year seventeen university students and ten members taking Extra First Class Certificate courses were under consideration for Institute grants.

INSTITUTE AWARDS

The following major awards were made:

The Denny Gold Medal for 1972 has been awarded to W. A. Noble, C.Eng. (Member) and I. Bennett, B.Sc., C.Eng. (Associate Member) for their paper "Machinery Installation Design" presented on 12 December 1972.

The Institute Silver Medal for 1972 has been awarded to A. E. Davies, C.Eng., A.F.R.Ae.S., for his paper "Principles and Practice of Aircraft Powerplant Maintenance" presented on 14 March 1972.

The Percy Jackson Diesel Engine Award for 1971/72 has been awarded to J. F. Butler, M.A., C.Eng. (Member) and E. P. Crowdy, V.R.D., M.A., C.Eng. (Member) for their paper "The Doxford Seahorse Engine" presented on 9 November 1971.

Extra First Class Engineers Certificate Examination—Institute Award. The Institute's Silver Medal for the candidate obtaining the highest marks in the Department of Trade and Industry's examinations in 1972 has been awarded, on the recommendation of the Chief Examiner of Engineers, to Mr. H. Woods, C.Eng., A.M.I.Mar.E.

The W. W. Marriner Memorial Prize for the best engineering knowledge script written by a candidate in the Department of Trade and Industry's examinations of the Second Class Engineer Certificate of competency has been awarded, on the recommendation of the Chief Examiner of Engineers, to Mr. M. G. Ray.

William Theodore Barker Award. Negotiations for the 1972 award are in hand.

The Frank Roberts Award for the student gaining the highest marks in the Phase III examination of the Ordinary National Diploma under the Alternative Training Scheme has been awarded to Mr. I. G. Cameron, S.I.Mar.E.

H.M.S. "Conway"

With the intention of encouraging cadets an annual award to the value of £10 to be made to the H.M.S. *Conway* cadet showing the most proficiency in Mathematics and Physics was agreed.

Schooner "Malcolm Miller"

Two berths aboard *Malcolm Miller* were allocated to the Institute for Mr. P. N. Blundell, S.I.Mar.E., and Mr. R. D. A. Lamble, S.I.Mar.E.

REMEMBRANCE DAY

It was agreed that the Remembrance Day Memorial Service normally held by the Institute on 11 November each year should, in future, be combined with the service organized at Tower Hill. No Institute Remembrance Service was, therefore, held, but the Institute was represented at Westminster Abbey One People Service and Conversazione; Annual National Service for Seafarers in St. Paul's Cathedral; Remembrance Day Service at Tower Hill; Remembrance Day Service at Westminster Abbey.

Annual Report of the Council for 1972

REPRESENTATION ON OUTSIDE BODIES

The Institute ceased to be represented on the East Ham Technical College Advisory Committee in February.

Professor G. H. Chambers was nominated to represent the Institute in place of Captain W. S. C. Jenks on the Lloyd's Register of Shipping Technical Committee.

Mr. G. Victory was invited to replace Mr. H. N. E. Whiteside as representative on the Committee of the British Nuclear Energy Society.

Mr. J. Campbell, Corresponding Member for Grimsby, replaced Mr. R. L. Rawlings on the Grimsby College of Technology Engineering Advisory Committee.

Mr. B. Hildrew, M.Sc., was reappointed to represent the Institute on the Court of the University of Surrey.

BUCKINGHAM PALACE GARDEN PARTY

Mr. and Mrs. W. McClimont, Mr. and Mrs. R. L. Rawlings and Mr. and Mrs. A. E. Franklin attended garden parties in July.

LEGACY

The late John Henry Oswald left a legacy of £100 to the Institute.

THE INSTITUTE OF MARINE ENGINEERS

BALANCE SHEET

30th September 1972

	Note	1972		1971
		£	£	£
Capital Fund	1		510,196	493,664
Reserve Fund	2		179,683	178,510
Development Fund			10,047	10,047
Award Funds	3		11,699	10,978
			<u>£711,625</u>	<u>£693,199</u>
Represented by:				
Investments				
Leasehold Property	4		481,084	466,084
Quoted Securities	5		167,231	161,945
Cash held for investment			14,061	8,780
			<u>662,376</u>	<u>636,809</u>
Fixtures and Fittings	6		18,314	17,527
Net Current Assets	7		19,236	27,885
Award Funds				
Investments and Cash			11,699	10,978
			<u>£711,625</u>	<u>£693,199</u>

REPORT OF THE AUDITORS TO THE MEMBERS OF THE INSTITUTE OF MARINE ENGINEERS

In our opinion the accounts and notes set out on pages A9-A12 give a true and fair view of the state of affairs of the Institute as at 30th September 1972 and of the income and expenditure for the year ended on that date.

Wellington House,
125-130 Strand,
London, WC2R OA2.
12th February, 1973.

ALLFIELDS,
Chartered Accountants.

REVENUE ACCOUNT

YEAR ENDED 30TH SEPTEMBER 1972

	Note	1972		1971	
		£	£	£	£
Income					
Members' Subscriptions and Entrance Fees			132,320		122,892
Investments: Net Rents	8	56,337		62,422	
Dividends and Interest		12,965		15,249	
			69,302		77,671
Publications			70,412		61,709
Sundry			3,871		2,608
Total Income			275,905		264,880
Less: Charges Thereon					
Loan Funding: Transfer to Capital Fund:					
Mortgage Repayment		15,000		15,000	
Interest for the Year		12,034		12,876	
Redemption Provision		1,000		1,000	
			28,034		28,876
Net Income			247,871		236,004
Less: Cost of Services Provided					
Direct Expenditure on salaries and supplies in respect of:					
Technical Services:					
Sessional and Specialist Meetings		6,424		4,820	
Library		8,388		7,157	
Publications		103,071		86,213	
Conferences		2,165		1,541	
Educational Grants and Prizes		7,113		7,095	
Professional Services:					
Council of Engineering Institutions		11,421		10,510	
Divisions and Branches		14,971		14,733	
Public Relations		2,900		2,052	
Development		7,693		10,056	
Indirect Expenditure in respect of the above:					
Maintenance of Membership Register		13,917		11,946	
Council and Committees		6,264		4,741	
Administration:					
Salaries		29,795		26,712	
Overheads		40,971		37,535	
Donation of Services to the Guild of Benevolence		1,000		998	
			256,093		226,109
Deficit Transferred to Reserve Fund	2	Deficit	£8,222	Surplus	£9,895

NOTES ON THE ACCOUNTS FOR THE YEAR ENDED 30TH SEPTEMBER 1972

1) Capital Fund	General	Leasehold Property Redemption Reserve	Total
	£	£	£
At 30th September 1971	479,664	14,000	493,664
Add: Appropriations from Revenue Account	15,000	1,000	16,000
Interest on specific investments	532	-	532
At 30th September 1972	<u>£495,196</u>	<u>£15,000</u>	<u>£510,196</u>

2) Reserve Fund	£	£
At 30th September 1971		178,510
Add: Net Surplus on Sale of Investments		10,688
Net Profit on Social Events (after charging a donation of £1,000 (1971-nil) to the Guild of Benevolence)		42
		<u>10,730</u>
		189,240
Deduct: Deficit for the Year transferred from Revenue Account		8,222
Provision for Doubtful Debts		750
Loss upon re-alignment of exchange rates		585
		<u>9,557</u>
At 30th September 1972		<u>£179,683</u>

Note: This Fund incorporates a Social Events Fund of **£3,468** (1971-£3,426).

3) Award Funds	Balances 30.9.71	INCOME Income	ACCOUNTS Expenditure	Balances 30.9.72	CAPITAL ACCOUNTS 30.9.72	TOTAL
	£	£	£	£	£	£
Akroyd Stuart	299	32	50	281	700	981
W. W. Marriner	89	15	15	89	3,153	3,242
Denny Gold Medal	230	41	26	245	735	980
Extra First Class Certificate	58	24	35	47	436	483
Frank Roberts	45	13	12	46	221	267
Percy Jackson Diesel Engine	154	98	10	242	1,398	1,640
William Theodore Barker	1,027	179	100	1,106	3,000	4,106
	<u>£1,902</u>	<u>£402</u>	<u>£248</u>	<u>£2,056</u>	<u>£9,643</u>	<u>£11,699</u>

Note: A further sum of **£567** was received during the year from the estate of the late G. T. Marriner to be used for the purposes of the W. W. Marriner Award. This makes a total to date of **£2,923**.

4) Leasehold Property	£
The Institute Headquarters, The Memorial Building, 76 Mark Lane, London, held on a lease expiring 2057	691,084
Less: Mortgage secured thereon and repayable in annual instalments of £15,000	210,000
	<u>£481,084</u>

5) **Quoted Securities**
 These consisted of Gilt Edged Stocks and British and American Equities at Cost. Their market value at 30th September 1972 exceeded their Balance Sheet Value by **£3,415** (1971-£22,047).

6) Fixtures and Fittings

	Cost	Aggregate Depreciation	Net
	£	£	
At 30th September 1971	41,013	23,486	
Additions During the Year	2,822	-	
Depreciation Charged to Revenue Account	-	2,035	
At 30th September 1972	£43,835	£25,521	£18,314
Net Book Value at 30th September 1971			<u>£17,527</u>

7) Net Current Assets

	30.9.72	30.9.71
	£	£
Stocks at cost or net realisable value	22,352	11,919
Debtors (including subscriptions in respect of 1972 and the net amount of income tax receivable and payable) and prepayments	47,209	33,847
Cash on short term deposit	20,000	17,000
Other Cash (United Kingdom and Overseas)	18,540	32,232
	108,101	94,998
Less: Creditors and receipts in advance including unexpired subscriptions	88,865	67,113
	£19,236	£27,885

8) Net Rents

	Year ended 30.9.72		Year ended 30.9.71	
	£	£	£	£
Rents		97,877		97,261
Less: Associated Costs:				
Salaries	10,716		9,933	
Services and Supplies	30,824		24,906	
		41,540		34,839
		£56,337		£62,422

9) Valuations

For the purpose of valuation of assets held abroad the rates of exchange adopted have been the official parities ruling in December 1972. In the cases of investments these have been valued at middle market value allowing for any loss of premium which might be suffered on sale.

Annual Reports of the Branches

Home

DEVON AND CORNWALL BRANCH

Branch membership at the end of 1972 was 454, an increase of 75 from January of the same year.

During the year seven technical meetings were held, also one senior/junior meeting. The highest attendance was 55. Two junior meetings took place with similar attendance.

Two visits were arranged to Plymouth Planetarium. A total of 110 members, wives, children and friends enjoyed the fascinating programme presented to them.

The combined Buffet-supper Dance, held once again in the Great Hall at Manadon, together with The Plymouth Panel of the Institution of Mechanical Engineers, was well attended by some 200 members and guests. Captain C. P. H. Gibbon and his wife were the official guests. The date was brought forward this time to 8th July owing to internal arrangements at The Royal Naval Engineering College, thus the Cheese and Wine Party was held later than usual on 6th October, 1972 at the Moorland Links Hotel, Yelverton. Attendance was 83 members and guests.

A. J. S. Bennett (*Chairman*)
J. H. Reynolds (*Honorary Secretary*)

KINGSTON-UPON-HULL AND HUMBER AREA

Membership of all grades increased by ten during 1972 and is now 460.

Three senior meetings were held and the average attendance of 40 members and 18 guests at these meetings was an increase over the previous year. This year's junior lecture was combined with a prize giving at which 117 were present. The Chairman gave a talk on "The Work of a Surveyor" and the prizes presented were to C. W. Cook and C. N. Witton as best students in the first and second years respectively. Messrs. Calder and Fenwick were the students nominated for the Lloyd's Register of Shipping Award.

Both the social events of the year were very successful. The Annual Dinner Dance in March at The Royal Station Hotel was attended by 202 members and guests. The Annual Dinner, held in November at the Guildhall was supported by 211 members and guests. The Bishop of Hull and Mr. R. L. Rawlings, Vice-President of the Institute, were guests and proposed a toast to the Branch.

Mr. A. Holmes continued to represent the Branch on the C.E.I. Yorkshire Committee and attended several meetings but will be succeeded in 1973 by Mr. G. Clarke. Professor Laithwaite spoke on the Tracked Hovercraft proposal at a C.E.I. meeting in Leeds in October and several Branch Committee Members attended.

Mr. J. Campbell continued as Corresponding Member for Grimsby, Mr. E. Barnett as representative of the Guild of Benevolence and of the Committee in connection with the Mechanical Engineering Department of the Hull College of Technology, and Mr. D. Vincent was appointed representative of the Institute on the Nautical Advisory Committee.

F. N. Sutcliffe (*Chairman*)
P. R. Salisbury (*Honorary Secretary*)

NORTH EAST COAST

Branch membership of all grades increased from 1264 to 1337 during 1972.

Ten meetings, senior and junior, were held this year and two technical visits were well attended. The first of these was to I.C.I. Wilton and the second to the Planetarium at South Shields College.

The Annual Dinner took place at the Civic Centre, Newcastle on 25th February.

In addition to the usual Spring and Autumn Golf Meetings an additional friendly match was arranged between members of the Branch and representatives of the North East Coast Institution of Engineers and Shipbuilders.

Appreciation was expressed to Mr. Jones of the University of Newcastle for his work on behalf of the branch and also to Mr. Stokoe. Thanks were also due to the University for use of the Lecture Theatre, and to South Shields Marine and Technical College for use of premises for junior meetings. All authors and contributors to the year's programme were also thanked.

W. A. Noble (*Chairman*)
T. Matthews (*Honorary Secretary*)

NORTH MIDLANDS

Membership of the Branch remained at 408 but attendance at the meetings improved during the year.

Four technical meetings were held, one of which was the Annual C.E.I. Lecture given at The Queens Hotel in Leeds. Venues for other meetings were in Huddersfield, Derby and Sheffield.

Three technical visits were arranged, as follows: to Messrs. Aiton and Co. Ltd., Derby, The Darlington Chemical Insulating Co. Ltd. and Messrs. John Player and Sons in Nottingham.

This year's Annual Dinner and Dance took place at Ye Olde Bell Hotel, Barnby Moor, Retford.

Retiring committee members are Mr. J. C. Proudfoot and Mr. P. A. Sparrow, and special thanks are due to them for their unstinting assistance while in office.

J. M. Proudfoot (*Chairman*)
R. M. Gilman (*Honorary Secretary*)

NORTH WEST ENGLAND

Membership of the Branch at the end of 1972 was 1939, all grades.

In addition to seven Branch technical meetings held during the year, three joint meetings and the C.E.I. Lecture took place. The joint meetings were with LADSIRLAC, the Institute of Mechanical Engineers and the Barrow Engineering Society. This last meeting was arranged by The Corresponding Member for Barrow, Mr. J. Aiken, whose services in this respect were much appreciated. The Branch was represented during the year on the Merseyside and North Wales Local C.E.I. Committee by Mr. H. D. Makinson and Mr. McBurnie, and a Science Fair was organized at the Liverpool Polytechnic. Three junior meetings were also held, and one technical visit, to Stone Manganese Marine Limited, Birkenhead was arranged where a tour of the works was followed by a buffet and a film show in the canteen.

The Annual Dinner and Dance was held in the Banqueting Suite of the Adelphi Hotel on Friday, 3rd November, 1972. Chief guest was Mr. J. Graham Day accompanied by Mrs. Day. The Chairman's guests were Mr. and Mrs. F. V. Edwards, Mr. J. Lever, Principal of Riversdale Technical College and Mrs. Lever, Mr. R. J. Evans, Principal of Birkenhead College of Technology and Mrs. Evans, and Mr. R. A. Evans, Chaplain Superintendent, Mersey Mission to Seamen, with Mrs. Evans.

H. D. Makinson (*Chairman*)
K. J. R. McBurnie (*Honorary Secretary*)

Annual Report of the Branches

NORTHERN IRELAND

The Branch ended the year with a membership of 264, an increase of four per cent.

Three technical meetings were held in 1972, two of which were lectures and the third an illustrated talk.

On 11th March a successful Dinner Dance took place at the Conway Hotel, Dunmurry. This was well attended by 169 members and guests.

J. B. Baillie (*Chairman*)
P. H. Reid (*Honorary Secretary*)

SCOTTISH

The total membership of the Branch had continued to increase and was now 1936, an increase of 125 during 1972.

Seven senior meetings were held in Glasgow with an average attendance of 60. At the one Glasgow student meeting of the year the attendance was 227. The eighth senior meeting which was held jointly with the Greenock Association of Engineers and Shipbuilders, had an attendance of 76.

The Annual Dinner of the Branch was held on 18th February and the Annual Dinner and Dance on the 16th December, 1972, both at the Central Hotel, Glasgow. These functions were a great success.

The Spring Golf Meeting was held on 10th May at Erskine. Thirty-one members competed for the Shell Salver and the Anchor Trophy, both of which were won by Mr. B. Brand. The Autumn Golf Meeting at the Buchanan Castle course took place on 7th September. This competition was for the Hamworthy Rose Bowl and the Beattie Rose Bowl. The former prize, presented to Mr. George Stein on behalf of Hamworthy Engineering Ltd., was won by Mr. Stein to the approval of all present. The Beattie Rose Bowl was won by Mr. J. Byrne with the best Stapleford Result.

The Committee thanked the Chairman, the Speakers and all who had contributed to the work of the Branch during the year.

T. R. Evans (*Chairman*)
L. D. Trenchard (*Honorary Secretary*)

SOUTH EAST ENGLAND

1972 completes the 11th year since the formation of this Branch and membership is now 952, a decrease of 21 since last year.

The main venue for meetings this year was Europa Lodge. The Branch hoped for increased attendances at the meetings as these are still not at a satisfactory level.

A technical visit to the Q.E.2 was enjoyed by members and wives.

Social functions have been well supported again. The Cheese and Wine Party held at the Medway Yacht Club in July 1972 was popular and attracted 110 members and guests. The Branch thanked Mr. Crossley, Commodore of the Club, and his fellow members too for the use of this Clubhouse.

The Annual Dinner and Dance at the Greenway, West Malling was well supported with 291 members and guests attending.

Mr. George Forsdyke retires from the Committee this year and his efforts on behalf of the Branch will be missed.

Mr. W. J. Davies who was co-opted to the Committee

last year has given invaluable assistance in arranging meetings in Dover.

J. R. Richardson (*Chairman*)
B. T. Clarke (*Honorary Secretary*)

SOUTH WALES

During 1972 the Branch held five senior and two junior meetings with an average attendance of 40 in all cases.

The Annual Dinner, held at the Park Hotel, Cardiff, had an attendance of 147 and the Annual Dinner Dance at Seabank Hotel, Porthcawl, was supported by 86 members and guests.

The Spring and Autumn Golf Meetings took place at Glamorgan and Venvoe respectively.

W. G. Fox (*Chairman*)
J. K. Phelps (*Honorary Secretary*)

SOUTHERN JOINT BRANCH R.I.N.A. AND I.M.A.R.E.

Attendance at the Technical Meetings during 1972 continued at a high level and the Branch was grateful to all authors for a programme of interesting papers which were followed by lively discussion.

All technical meetings are now held in either Portsmouth Polytechnic or Southampton College of Technology and the Branch is indebted to the authorities for making these facilities available.

A Wine and Cheese Party was held in the University of Southampton in September. This was well received and may become an annual event. The Annual Ball, held in the Skyway Hotel, Southampton, brought together members and their guests for an enjoyable evening. At the Annual Dinner the guest of honour was Admiral Jose Carlos Coelho de Souza, Head of the Brazilian Naval Commission in Europe. The venue was the Royal Beech Hotel, Southsea, and the evening was a great improvement upon previous years.

Mr. J. Rix, to whom the Branch are most grateful for his services as President for two years, has now retired but will continue to serve as an Honorary Vice-President; Mr. A. J. Vosper consented to succeed Mr. Rix. Mr. Vosper has served the Branch for many years as a Member, Chairman and Vice-President. Mr. A. A. C. Griffiths and Mr. F. C. Parsons retired on completion of their four year terms of office and the new Vice-Presidents are Professor G. J. Goodrich, Mr. P. J. Usher and Mr. T. E. Thornycroft.

WESTERN JOINT BRANCH R.I.N.A. AND I.M.A.R.E.

Following the inauguration of The New Joint Branch on 16th May, 1972, by the President of the Institute of Marine Engineers Vice-Admiral Sir George Raper, K.C.B., the Branch Council arranged a programme of activities. This included six technical meetings at which attendance could have been better, and increased attendance is hoped for in future.

The Buffet Dance, held in the Senate House of Bristol University on 24th November 1972, was also poorly attended although obviously enjoyed by the six per cent of the membership who were present.

The Branch Council thanked those who regularly attended meetings and wished for a better response in the future, particularly from young members.

Australia/New Zealand Division

CANBERRA SUB-BRANCH

Four technical meetings were held in 1972, two of which were sponsored by the Royal Institution of Naval Architects. The Inaugural Dinner was held on 17th March and on

22nd September a Buffet Dinner attended by Members and wives took place. A Committee Dinner was held on 14th December. The social Dinners were arranged jointly with the Royal Institution of Naval Architects.

Annual Report of the Branches

The Sub-Branch has been fortunate in obtaining the use of the lecture theatres and meeting rooms of the Australian National University.

Eric. E. Fewster (*Chairman*)
R. Alder (*Honorary Secretary*)

CHRISTCHURCH (SOUTH ISLAND)

Membership of the Branch was 81 in 1972, an increase of 27 per cent since 1969.

Three technical meetings were held during the year, including one at Dunedin, also two technical visits took place. All were reasonably well attended.

A social evening was arranged in October.

K. B. C. Beale (*Chairman*)
B. T. Carr (*Honorary Secretary*)

NEWCASTLE SUB-BRANCH

In 1972 the Branch held five technical meetings and arranged two Dinner Dances, which were held at the Masonic Club.

R. Pattinson (*Chairman*)
R. B. Cox (*Honorary Secretary*)

NEW SOUTH WALES

Membership increased during 1972 to 560. Of this total 74 are members of Newcastle Sub-Branch and 37 of Canberra Sub-Branch.

This year five technical papers were presented one of which—"Quality Control for Naval Refitting" by B. M. Ziegler—was a combined meeting, with The Royal Institution of Naval Architects acting as hosts. One technical film on the Installation of Caterpillar Diesel Engines was presented on video-tape by Mr. W. Newling. All meetings were well attended with an average of 55 present.

A technical visit on the 6th September to the Qantas Jet Base Facility at Mascot, attended by 45 members and guests, was considered to be an event of importance.

In addition to the Annual Dinner Dance, held on 2nd September in the Silver Room at Grace Bros., Chatsworth, attended by 132 members and guests, a floating Dinner Dance took place aboard m.v. *Lady Scott* on Saturday 11th March. The Annual Dinner was held at Windsor Gardens, Chatsworth on Friday 10th November. 128 members and guests were addressed by Sir Philip Baxter, K.B.E., G.M.C., former Chairman of The Australian Atomic Energy Commission. At this dinner the G. I. D. Hutcheson Memorial Prize was presented to Captain R. J. Pinfold, Australian Regular Army, on the recommendation of the Education Sub-Committee.

G. S. Cole (*Chairman*)
D. A. Gillies (*Honorary Secretary*)

QUEENSLAND

At the end of 1972 the Branch membership was 152 which is an increase.

The technical meetings numbered six during the year and had a reasonable attendance. Owing to absence of ship-building activity in the port no technical visits to vessels under construction could be arranged.

The sixth Annual Dinner was attended by over 90 members and guests and was held at The United Service Club, Brisbane. The Guest Speaker was Mr. D. J. Killen, M.P., who gave an interesting talk on the controversial subject "Offshore legislation for our coastal waters". Lady's Night Dinner Dance was held at 29 Murray Street and was well attended, and the Christmas Conversation held at H.M.A.S. *Moreton* again proved to be popular. The Branch also took part for the first time in the Brisbane Marine Ball.

This year good liaison has been developed with the Company of Master Mariners.

The Chairman and Committee appreciated the outstanding and enthusiastic work done by the Honorary Secretary and thanked those who had contributed technical papers and assisted with social functions.

L. Roessler (*Chairman*)
A. L. Redford (*Honorary Secretary*)

SOUTH AUSTRALIA

Membership of the Branch at the end of 1972 was 73, an increase of 10 over the previous year, all grades.

The programme for the year included four technical meetings, one technical visit for students and apprentices, and a film evening. Average attendance at meetings was 19.

The Annual Dinner, attended by 56 members and guests was held in November at the Feathers Hotel, Burnside. The evening was very successful and proceeds from the dinner allowed a donation of \$20 to be made to the Crippled Childrens' Association of South Australia.

G. E. Bennett (*Chairman*)
J. C. Nealy (*Honorary Secretary*)

VICTORIA

Six technical meetings and a Symposium, organized by this Branch for the Australia/New Zealand Division in co-operation with the Company of Master Mariners of Australia, made a full programme in 1972. Average attendance at meetings was 32.

The two day symposium, "Training for Work at Sea" was the highlight of the year's activities. Of the 13 papers presented seven were of a non-engineering nature and four of these were given by Master Mariners. The formal opening by Mr. P. J. Dixon, the then Commonwealth Minister for Shipping and Transport, took place on 21st September and a Dinner was held on the same evening. Delegates and their wives were present and Mr. J. T. Ludeke, of the Commonwealth Conciliation and Arbitration Commission was the guest speaker.

Three technical visits were arranged: 28th April to Monash University Mechanical Engineering Laboratories; 20th June to the Australian Paper Manufacturers, Fairfield Mill and 21st November to the Total Energy Installation at BHP House. All visits were well attended.

A well appreciated social event was a theatre night on 29th March when members and wives saw "Charlie Girl" and then went on to a supper together.

This year the Victoria Branch acted as hosts for the C.E.I. Committee's Dinner. The guest speaker was Mr. D. A. Wittner, General Manager of the Oil and Gas Division of BHP Co. Ltd. who gave a thought provoking address on the "Oil and Gas Industry, with Particular Reference to Australia".

The Branch Annual Dinner also had an interesting guest speaker, Mr. J. H. Patterson, Managing Director of Associated Steamships Pty Ltd., who chose as his subject "Maritime Training—One Shipowner's Point of View". This address created considerable discussion and was a good follow up to the previous month's Symposium.

In September many members attended a three day International Gas Turbine Conference organized by the Society of Automotive Engineers, Australasia. This Society had invited the Branch to nominate a delegate who would assist with the selection of papers, particularly those covering marine aspects.

The Branch Education sub-committee again co-operated with the Department of Labour and National Service in revising the Careers Guide for Victoria.

W. F. Ellis (*Chairman*)
P. Bossen (*Honorary Secretary*)

Annual Report of the Branches

WELLINGTON

The Branch membership increased during 1972 and now stands at 104, all grades.

Three technical papers were presented in May, July and September respectively, and four technical visits also took place.

This year's Annual Dinner and Dance was held in November.

The Branch social evening, arranged in the Napoleon Room of the Hotel Waterloo, was attended by 39 members, wives and guests.

Mr. H. J. Feickert, Chairman of the Branch was the delegate this year at the Annual Conference.

H. J. Feickert (*Chairman*)
R. K. Jacobs (*Honorary Secretary*)

WESTERN AUSTRALIA BRANCH

Membership of the Branch has increased to 126 during 1972, mainly due to transfers from other Branches.

The four technical meetings held during the year were supplemented by two lunchtime discussion meetings, and one technical visit also took place.

The Chairman and Mrs. Thompson received the 90 members, wives and guests who attended the Annual Dinner held at the Pumphouse, Claremont on 27th October.

The appointment of Mr. E. E. Freeth as Vice-President, Australia/New Zealand Division, pleased and honoured the Branch. This should ensure more personal contact with other Branches.

Chairman, Mr. J. Thompson and Committee Member Mr. K. Reah will be the retiring members this year.

J. Thompson (*Chairman*)
G. A. Kerr (*Honorary Secretary*)

Canadian Division

ATLANTIC

Membership of the Branch at the end of 1972 was 174, all grades, a slight increase over the previous year.

Four technical meetings and one technical film showing took place during the year with an average attendance of 37.

On 19th May a visit was arranged to H.M.C.S. *Protecteur* by kind permission of the Commanding Officer, Captain (N) J. P. Cote. The tour was organized by Engineer Officer, Lt. Cdr. J. Chisholm, Member.

On 7th May members and their families took part in the Battle of Atlantic Sunday Ceremonies in Halifax, Nova Scotia. A Wine and Cheese party also held in Halifax aboard H.M.C.S. *Scotian* was well attended with 91 people present. This year's Buffet and Dance, held at Dalhousie Student Union Building, had an attendance of 155.

Ninety-six players participated in the Annual Golf Tournament at the Oakfield Country Club, Grand Lake, Nova Scotia.

Due to retirement the Committee will lose the services of Mr. A. Cain and Lt. Cdr. K. W. Hamilton.

A. Cain (*Chairman*)
B. D. Lawson (*Honorary Secretary*)

NEWFOUNDLAND

In addition to the Annual General Meeting the activities of the Branch this year were: One technical meeting at which a paper was read, three meetings during which a film of technical interest was shown, and three committee meetings.

R. A. Harvey (*Chairman*)
P. J. Strain (*Honorary Secretary*)

OTTAWA

Membership of the Branch at the end of 1972 was 80.

Six technical meetings were held during the year at which attendance remained fairly constant, averaging 30-35 including guests. To show appreciation to speakers at the meetings the Committee presented each one with an Institute Memorial Crest.

The social events this year were an Annual Ladies' Night Dinner in May and a season opening Cocktail Party in September. Average attendance was 60 to 80 members and ladies.

W. Ross (*Chairman*)
B. F. Allen (*Honorary Secretary*)

VANCOUVER ISLAND

Membership of the Branch was increased by eight during 1972 and now stands at 88, all grades.

Six technical meetings were held during the year.

A social evening was arranged in May. A smorgasbord Dinner, drinks and dancing were enjoyed by those present.

At the February meeting the committees decided to make an annual award of a set of drawing instruments to the most deserving candidate at the 3rd or 4th class Certificate of Competency level. This is to be a memorial award and will be judged by the Examiner of Engineers, Ministry of Transport, Victoria.

R. A. MacKay (*Chairman*)
N. Sutherland (*Honorary Secretary*)

Indian Division

COCHIN

The Branch membership now total 97, an increase of nine from the previous year.

During 1972 three technical meetings were held, two of which were in the form of technical film shows, and this year's technical visit was to Cochin Refineries followed by an evening visit to Ambalamugal Rest House.

A. Mathew (*Chairman*)
V. L. Krisnamurthy (*Honorary Secretary*)

DELHI

The activities of the Branch during 1972 included two technical films and four technical meetings. Members were also invited to attend the I.S.I. Convention in April.

One technical visit to an industrial firm was arranged this year.

The Annual Dinner and Dance took place in December.

C. L. Bhandari (*Chairman*)
J. M. Bazaz (*Honorary Secretary*)

Annual Report of the Branches

MADRAS

The total membership of the Branch now stands at 64. This year's technical meetings were five in number and were all well attended.

The committee would like to record its appreciation of

the hospitality extended by The Seafarers' Club in permitting meetings to be held in their premises, and to the authorities concerned for the arrangements made each time.

Shri Krishnan (*Chairman*)

D. R. Padalkar (*Honorary Secretary*)

Overseas

CORK

Present membership of the Branch is 36, all grades. During 1972 seven technical meetings took place.

In June a technical visit was attended by ten members who went to the Winn Technology Research Centre, Killbrittain, Co. Cork. The second visit of the year was in December when the Chairman and nine others joined a tour of Pfizer's Chemical Plant, Ringeskidly.

At the Cork Scientific Exhibition, City Hall, in March, members of the Branch staffed a Marine Engineering Stand. The Exhibition was sponsored by Verholme Cork Dockyard. Some interest in membership of the Branch has been shown by staff of this Dockyard and enquiries for circulations of the appropriate forms have been acted upon.

The first Dinner Dance was held at Arbutus Lodge on 28th January 1972. This was an informal function with an attendance of 40, including guests. The Annual Dinner took place in December at the Metropole Hotel and 46 members and guests were present.

J. T. Thirlaway (*Chairman*)

J. F. Troy (*Honorary Secretary*)

DUBLIN

Five papers were presented at Shell-B.P. House during 1972, four of which were arranged in co-operation with the Cork Branch, and a technical visit to the Poolbag Generating Station was also organized.

Attendance at the meetings showed an improvement which continued to increase during the year.

N. J. Healy (*Chairman*)

T. A. Kiernan (*Honorary Secretary*)

EASTERN U.S.A.

Two technical meetings were attended by members of the Branch this year, the second of which was a joint meeting with the Society of Marine Port Engineers. Two technical papers were read at this meeting which was well attended with 89 members and guests of both societies present.

S. G. Christensen (*Chairman*)

R. E. Yohe (*Honorary Secretary*)

HONG KONG

Eight technical meetings were held during 1972. Shorter papers followed by a full discussion were presented this year. All meetings were well attended and the discussions were animated and lengthy.

Organized visits for students continued to average one per month throughout the year. New visits included those to m.v. *Priam* of the Blue Funnel Line, the China Light and Power Co.'s HOK Un Power Station and the PEP Co. Power Station on Tsing Yi Island. Another visit of interest was an on the spot study of the first annual drydocking of Tai Tak Hing's Hong Kong/Macau ferry passenger vessel m.v. *Taishan*. Sea trials were performed during the visit

under the supervision of the Company Superintendent Mr. D. Hay.

Four football matches were included in the student members' programme this year.

The Sixth Annual Ball was held at the Mandarin Hotel on 25th March 1972, with a record attendance by members, their wives and guests.

The Annual Golf Match was held at Shek-O Country Club on Friday, 14th January 1972, under the convenorship of Mr. J. D. Whineray and arranged by Lt. Cdr. E. Pidgeon, R.N. Twenty-three members attended of whom 15 played off. The match was played under Stableford rules and won by Mr. L. G. Winter. The runner-up was Mr. J. D. Whineray.

Mr. M. C. Taylor, Vice-Chairman of the Branch, and also Mr. N. J. Matthew, represented the Branch at the presentation of Certificates of Training to Engineer Cadets on the Alternative Training Scheme at the Technical College. Many of the cadets are student members of the Branch.

L. T. Williams (*Acting Chairman*)

Q. M. Watt (*Honorary Secretary*)

PAKISTAN

Three technical meetings were held in 1972 at which the average attendance was 60. Keen interest was shown by the junior members who attended. Increasing numbers of young marine engineers have shown interest in joining the Institute and forms have been circulated amongst them.

Arrangements for the prize awarded by the Institute to a Mercantile Marine Academy Cadet had to be changed this year. The Award, formerly presented to the best engineering cadet of the Chittagong Academy will, in future, be offered on the same basis to the Academy at Karachi. Agreement was not reached until after the passing out ceremony this year, and the award could not be made but will be recontinued next year.

The use of office premises will shortly be allowed to the Branch by courtesy of the National Shipping Corporation.

Z. A. D. Abid (*Chairman*)

J. Mansoor (*Honorary Secretary*)

JOINT MALTA BRANCH, R.I.N.A. AND I.MAR.E.

Three technical meetings were held in 1972. As this is a decrease on previous years assistance was asked from members towards finding suitable material for future papers. Attendance at the meetings was encouraging and included a number of guests.

A total of 72 members and guests attended the Annual Ladies' Night Dinner Dance held on 28th April at the Phoenicia Hotel. Guest of honour was Mr. J. M. Calleja, General Manager of Malta Drydocks Corporation, who proposed a toast to the Ladies. Mrs. D. Owen, wife of the Chairman, responded and proposed a toast to the Branch.

S. Owen (*Chairman*)

E. Mallia (*Honorary Secretary*)

Representatives' Reports

City and Guilds of London Institute Advisory Committee on Shipbuilding, Ship Joinery, Yacht and Boat Building

Representative: P. J. Howard, B.Sc.

The Committee considered the possible effect of the Shipbuilding Industry Training Board's revised recommendations for the training of shipyard trainees on the City and Guilds syllabuses. It decided that no changes should be made in the No. 240 Shipbuilding Craft Studies syllabus before 1974/75 at the earliest but the situation should be kept under review. An Institute-set syllabus at Part III had already been introduced.

The Regulations for the Shipbuilding Technician's Certificate have been modified to allow the award of a Full Technological Certificate to technicians who pass Parts I, II and III.

Investigations are in hand to decide on the feasibility of providing a single course structure for a number of related trades, shore based and seagoing, for craft level personnel concerned with the maintenance and repair of marine engines. The Institute already conducts special examinations at Leith, Great Yarmouth and Dover and interest has been expressed in Lerwick and Aberdeen.

Committee on Regulations for the Electrical and Electronic Equipment of Ships

Representative: R. E. R. Crick

The fifth edition of the Institution of Electrical Engineers' Regulations for the Electrical and Electronic Equipment of Ships was issued in December 1972.

The publication is in two parts—Regulations and Recommended Practice for their Implementation.

Recommended Practices in regard to High Voltage Systems and to Protection have been included. Metric units have been adopted as far as practicable.

Court of the Cranfield Institute of Technology

Representative: Rear-Admiral H. G. H. Tracy, C.B., D.S.C.

The 5th meeting of Court, upon which the Institute of Marine Engineers is represented, took place on 24 May 1972.

The meeting was preceded by a conference of Court members to discuss Cranfield's possible role in Europe and the E.E.C. A paper presented by the Vice-Chancellor provided background by detailing existing and some possible future activities of the Institute that might contribute to this. After discussion, the conference split into groups to discuss particular faculty areas in some depth and at the meeting of Court which followed, the results of these deliberations were presented. The general upshot was wholehearted support for the policy that the Institute should seek to develop actively as a centre for post-graduate studies in Europe. Among recommendations made were: the establishment of new courses designed to provide for specific European needs, inadequately met at present; that links be made with the Common Market Commission, the British Delegation in Brussels and the British Council; that staff and student exchanges be arranged with other European institutions; that Cranfield be further developed as an international conference centre.

Court also received and discussed reports from the Council, the Senate and the Academic Advisory Committee of the Institute, as well as dealing with formal and routine business

items. The picture presented by these reports was one of sustained development and expansion in both physical resources and student numbers. As to the latter, the number of Doctor and Master Degree students rose from 399 to 452 and short courses were held for 2230 students during the year.

In sum, Cranfield continues to impress and members of the Institute of Marine Engineers are strongly advised to consider Cranfield both for management courses and for courses in a wide range of technical subjects, when the need arises.

Grimsby College of Further Education: Engineering Advisory Committee

Representative: J. Campbell

Well attended meetings have been held at the College when various items have been discussed and several recommendations made and at which time the year's working of the College has produced some very satisfactory results.

In particular the Grimsby Institute of Engineers and Ship Builders chose Michael Ormsby for "Apprentice of the Year".

This Student, an employee at Messrs. Peter Dixon and Co., news print manufacturers, obtained the Higher National Certificate in Engineering with distinction.

The examination results of 1971 and 1972 were reported to the Committee when it was noted with pleasure the high percentage of passes within the Department of 85 per cent.

New courses are being introduced and old courses phased out.

The current session figures of enrolment are reported by the Head of the Department to be down by approximately 10 per cent and it was generally felt that there are several reasons for this.

The general employment situation at the present time, the fact that Students are staying at school for longer periods and the contraction in certain industries are resulting in the reduction in the number of apprenticeships available.

At the same time, however, it was noted that enrolments in some servicing courses were up.

Joint British Committee for Stress Analysis

Representative: B. Hildrew, M.Sc.

The major event in the past year has been the Conference held at the Institute of Marine Engineers on behalf of the J.B.C.S.A. The Institute sponsored the meeting entitled "Recording and Interpretation of Engineering Measurements". The papers presented covered a wide range of developing measuring techniques presently evolving in the universities and in industry.

A one-day Conference was held at City University entitled "The Economics of Strain Measurement" and the British Society for Strain Measurement organized a meeting on the new draft code "Methods for Calibration of Bonded Electric Resistance Strain Gauges". This attracted a large audience and a valuable and comprehensive discussion took place.

The *Journal of Strain Analysis* is now in its eighth year and the quality of papers coming forward for publication is as high as ever. Any organization interested in strain analysis would find this publication of considerable interest. Publication costs of technical information continue to rise and it is only by increased support that the specialist journal will survive. It will be a loss to technology if a journal of the calibre of the J.S.A. ceases to be published.

Joint Committee for Ordinary National Certificates and Diplomas

Representative: Dr. J. Cowley

During 1972, no major developments relating specifically to marine engineering were considered. Two general matters may be of interest to members.

As a member of the Joint Committee, the Institute's representative attended a special meeting at which the problem of finding industrial places for Ordinary and Higher National Certificate students was discussed. It is an essential feature of the Schemes that candidates should have industrial experience, but this provision was becoming increasingly difficult to fulfil. This difficulty has relevance to the shipping industry as applicants for positions as engineer on board ship must have practical experience if they eventually wish to enter the D.T.I. Certificate examinations.

The second matter relates to the implementation of the Haslegrove Report and the belated proposals presented to the Institutions by the Department of Education and Science. Members may remember that the Report advocated the replacement of the Joint Committees by a Technician Education Council serviced by the City and Guilds of London Institute. Since the O.N.C.-H.N.C. route to Chartered Membership of an Institution was virtually closed by the C.E.I. requirements, National Certificates and Diplomas could have been replaced by the new certificates specified in the Haslegrove Report. However, since the establishment of the Engineer's Registration Board for Technicians and Technician Engineers, many chartered institutions (including this Institute) continue to have a membership interest in other than Chartered Engineers. It is therefore necessary that the Haslegrove implementation proposals are acceptable to the institutions. To say more would probably be a breach of confidence but the long delay in implementation can be said to be mainly due to the long discussions between the C. and G. Institute and the D.E.S. and recently to a lesser extent to subsequent discussions between D.E.S. and the institutions.

Lloyd's Register of Shipping Technical Committee

Representatives: D. W. Kerr and Professor G. H. Chambers, D.S.C.

The requirements for oil tankers intended for the carriage of oil in bulk having a flash point below 60°C in respect of cargo tank venting and inert gas arrangements (where applicable) agreed by the International Association of Classification Societies have been incorporated into an enlarged Section II of Chapter E. The additions include requirements for the capacity of inert gas systems and the associated safeguards to be fitted to such systems.

The requirement in Paragraph 312 of Chapter H has been recorded to clarify that the indication of surface contact between gear teeth for both propelling and auxiliary machinery obtained after full power trials should be at least 90 per cent of the tooth face width.

The electrical equipment requirements for oil tankers and other bulk ships intended for the carriage of bulk liquid cargoes with a flash point below 60°C have been revised on the basis of the latest recommendations of the International Electro-Technical Commission. Section 16 of Chapter M has been subdivided into three parts covering the electrical equipment in the cargo tanks and all adjacent spaces and decks, pump rooms and cofferdams for tankers intended for bulk oil cargo with a flash point below 60°C, tankers intended for bulk liquefied natural gas or petroleum gas, and tankers intended for other flammable liquid cargoes in bulk.

Requests for the Society's acceptance of repairs by welding to copper alloy propellers during manufacture have resulted in the Panel on Bronze Propellers producing Provisional Rules for such repairs (Chapter R(H) Section 2). These indicate the zones on the blade faces where repairs can be made by welding, the extent of the areas allowed to be so repaired and relevant heat treatment and procedures to be used.

As the result of the occurrence of fire caused by spillage of fuel oil from a tank sounding pipe terminating in the machinery spaces, the Paragraph 412 in Chapter E has been amended to require that such sounding pipes should be terminated at safe positions outside the machinery spaces.

The International Association of Classification Societies' Working Party on Engines has agreed on requirements for safeguards on starting air systems and scavenge manifolds on oil engines. These have been incorporated in an addendum to Chapter H 622 requiring oil engine scavenge spaces in open connection with cylinders to be fitted with a fire extinguishing system separate from the engine room fire extinguishing system.

Another amendment resulting from the I.A.C.S. Working Party on Engines and agreed with the Conseil International des Machines à Combustion (CIMAC), concerning spares and standby arrangements for oil engines, has been incorporated in Chapter K.

The Society's requirements for control engineering equipment have been incorporated in Chapter L since 1969 and were framed to indicate the problem areas rather than standard solutions. With experience of applying these requirements, amendments and revisions have now been made to this Chapter making it more specific as to the equipment and safeguards to be incorporated in unattended machinery spaces, the propulsion and other essential machinery in such spaces (with the addition of gas turbines) and for controllable pitch propellers used with unattended propulsion machinery. The amendments to the oil engine control equipment requirements reflect the agreed views of CIMAC.

Professor Chambers attended the meeting on 29 November 1972.

For air, overflow and sounding pipes, following a fire due to spillage, amendments are made to the rules including the requirement that for oil fuel and lubricating oil tanks sounding pipes are to be led to the open air.

For oil engines and starting air compressors rule amendments include the provision of a separate fire extinguishing system for scavenge spaces in open connection with the cylinders. There are also amendments to the requirements for spare parts to be carried.

For control engineering equipment the rules have been considerably amended and amplified in the light of experience and of the agreed views of CIMAC members.

In addition to the consideration of above reported rule amendments, there was a discussion on the desirability of allowing ships to have one main boiler without alternative means of emergency propulsion. It was reported that some classification societies might waive this. The Committee agreed to retain the existing rule requirements.

*North Western Regional Council for Further Education
(Nautical Advisory Committee)*

Representative: H. D. Makinson

The proposed new structure of certificates of competency of the U.K. Merchant Service were outlined by the representative of the D.T.I. It was reported that reaction on both sides of industry had been on the whole favourable.

The new schemes of courses for Marine Radio and Radar Technicians of three years' full time study were considered. It was resolved that the report of the meeting of the S.C.R.A.C. Advisory Committee on Fishing Courses and the minutes be received.

Parliamentary and Scientific Committee

Representative: R. Cook, M.Sc.

There have been eight meetings of the General Committee at which discussions have been held on the following subjects:
Water Supplies, with Special Reference to Desalination;
Quality Control;

Annual Report of the Council for 1973

Standards and Marking;
Developments in the Use of Computers;
Road Safety;
Exploitation of North Sea Oil;
Pollution Control;
Research and Development in Ships and Marine Engineering;
Safety and Health at Work.

The discussion on Ships and Marine Engineering was initiated by Mr. T. A. Greenwell, Mr. E. P. Crowdy and Dr. R. Hurst. The meeting was very well attended and there was a lively discussion.

A number of visits have been paid to industrial and scientific establishments.

Poplar Technical College Board of Governors

Representative: Dr. J. Cowley

During the year, Dr. Cowley represented the Institute at all Board of Governors meetings and several interview boards for the selection of staff. In addition, he attended a course on Technical College Government at the Staff College at Coombe Lodge, near Bristol. He was re-elected Vice-Chairman for the current year.

A big re-organization of Colleges of Further Education in the Inner London Education Authority is under consideration and it is not clear how the College will fit precisely in the future plans.

It would appear that the senior marine students (Extra-First, First and Second Class D.T.I. Certificate candidates) will eventually be transferred to the Thames Polytechnic (formerly Woolwich Polytechnic) and that the Ordinary National Diploma and the City and Guilds Marine Technician students will go to the new Cadet Centre at Greenhithe.

In the meantime, the College continues to attract its proportion of students from a wide range of disciplines in land based and marine industries.

Regional Council for Further Education for the South West: Regional Advisory Sub-Committee for Maritime Education

Representative: A. J. Weddle

Reports were made from the educational representatives of Bristol Polytechnic, Plymouth College of Further Education and Plymouth Polytechnic, covering courses catering for Deck Officers and Cadets, Radio Officers and Cadets and Marine Engineer Cadets.

A proposal for a Higher National Diploma in Nautical Science has been submitted and accepted. This course will consist of two thirty-week blocks of college study, separated by an industrial sandwich of one year.

There was some discussion regarding the establishment of a Degree in Fishery Science, administered by the C.N.A.A.

A progress report was made on developments in Marine Electronic Courses and it was stated that the possibility of marine engineers following these courses was being examined.

Shipbuilding Industry Training Board Technologist and Technician Sub-Committee

Representative: Commander A. J. Calvey, R.D., R.N.R.

A working party was set up by the Shipbuilding Industry Training Board Technologist and Technician Sub-Committee on the 27 July 1970 and the terms of reference for the training of Marine, Mechanical and Electrical Engineers in the Marine Industry were:

"To prepare recommendations for the training of Marine, Mechanical and Electrical Engineers and, in the process of doing so, to have regard to the Engineering Industry Training Board's recommendations for 'The Training of Professional Engineers' and such other source material as may be considered relevant by the Working Party."

Three meetings were held in Newcastle and London, and the Sub-Committee finalized the Recommendations on the Training of Technologists which has been sent to all shipyards and all firms engaged in marine engineering in the United Kingdom for guidance on the training of graduate engineers. These recommended that the training should have the form of thick and thin sandwich courses.

The Sub-Committee will be dealing, in due course, with technician training in the marine industry when the results of current investigations being carried out by the Engineering Industry Training Board have been made known.

United Kingdom Automation Council

Representatives: D. Gray, B.Sc. and J. McNaught

The Users' Group of the U.K.A.C., to which the Institute is attached, have discussed:

- a) automation at sea;
- b) automation in shipbuilding;
- c) automation in steel mills.

Among future conferences are:

- i) IFAC/IFORS Conference on "Dynamic modelling and control of national economies", to be held at the University of Warwick from 9-12 July 1973.
- ii) 5th U.K.A.C. Control Convention on "Modelling and simulation for applied control systems", to be held at the University of Bath from 17-20 September 1973.
- iii) 3rd IFAC Symposium on "Multivariable control systems", to be held at the University of Manchester Institute of Science and Technology in September 1974.

Membership and Subscriptions

At the 1971 Annual General Meeting, due notice was given of the intention to increase subscriptions to enable the United Kingdom Automation Council to look ahead in terms of long range planning.

Every effort was made to ensure that increases in subscriptions would be kept to the minimum. The Budget was drastically pruned to the fine point of leaving no margin whatsoever for contingencies, firstly, by halving the secretarial assistance without affecting the efficiency of the organization, and secondly by further scrutinizing each item of expenditure, thus effecting an overall reduction of one-sixth on the original Budget.

Branch Annual General Meetings

Home

SOUTH EAST ENGLAND

The Annual General Meeting of the Branch was held on 20th February 1973. The Annual Report and the Financial Report were read and approved and the Junior Sub Committee Report was also read.

Following the usual electoral procedures the Committee for 1973 is:

Chairman: J. Richardson
Vice-Chairman: F. C. Bown

Committee: E. A. Aldington
M. J. Alexander
A. G. Beavan
W. J. Davies
J. Heighway
L. Hawdon
B. L. Norman
J. C. Woodhead
Honorary Secretary: B. T. Clark
Honorary Treasurer: W. J. Packham

Canadian Division

ATLANTIC

The 13th Annual General Meeting of the Branch was held on 19th January, 1973, at the Dockyard Management Association Building, Halifax, Nova Scotia. Mr. A. Cain the Chairman presided and 33 members attended.

The Chairman called for one minute's silence in respect of the late Captain Frank Hartley who had been Vice-President of the Branch in 1963-64.

The Honorary Secretary read the Annual Report and the Honorary Treasurer gave details of the changes which had been made concerning the new date for the end of the financial year.

This was followed by a discussion on the Divisional Conference to be held in early March and the draft agenda was read.

Following the usual balloting procedure the Committee for 1973 was announced as follows:

Local Vice-President
(Halifax): J. Gamble
Chairman: K. Harrison
Vice-chairman: G. C. Johnson
Committee: T. Forsythe
J. B. Matthew
Lt. Cdr. J. E. Bradbury
F. S. Williams
Honorary Secretary: B. D. Lawson
Honorary Treasurer: H. R. Macpherson

After a short recess the retiring Chairman, Mr. A. Cain, handed over the chair to Mr. K. Harrison and discussion followed on the arrangements for future technical papers and social events.

The Local Vice-President, Mr. J. Gamble, then made the presentations to retiring Committee Members. Mr. A. Cain, the 1972 Chairman, was presented with an Institute Plaque and Engraved Dory. An Institute Plaque was also presented to Mr. J. Mitton, Chairman for 1971, and an Engraved Dory to Lt. Cdr. K. W. Hamilton, retiring Committee Member for 1972. A vote of thanks was called for in appreciation of their services to the Branch.

After a vote of thanks to the Dockyard Management Association for use of their facilities the meeting adjourned at 20.30.

NEWFOUNDLAND

The Annual General Meeting of this Branch was held at the College of Fisheries and Marine Engineering, St. John's on 13 February 1973. The meeting commenced with a film "Steam Power" by Combustion Engineering Ltd., and this was well received by the members present.

The election of Branch officers for the coming year then took place and the Committee for 1973 is therefore:

Chairman: R. A. Harvey
Vice-chairman: R. G. Greenland
Committee: M. G. Barrett
J. P. Green
E. S. Hoskins
P. J. Stain
R. Wilson
Honorary Secretary: G. Smith
Honorary Treasurer: H. G. Evans

Indian Division

CALCUTTA

Following the Annual General Meeting on 9th April 1973 the Committee for 1973 is:

Chairman: D. Madhok
Committee: P. K. Banerjee
N. L. Narasimah
Amar Singh
J. M. Trindade
A. K. Ghosal
S. Chandra
V. K. Seth
M. G. Kale

Honorary Secretary: H. K. Karl
Honorary Treasurer: A. Roye

COCHIN

The Branch Annual General Meeting, held on 16th December, 1972, commenced at 19.15 in the "Blue Room" Naval Mess. The 26 members and 18 ladies present were welcomed by Mr. Abraham Mathew who presided.

The Honorary Secretary, Sri Krisnamurthy read the annual report which was then adopted, and the annual accounts presented by the Honorary Treasurer were accepted.

Branch Annual General Meetings

Following the election of new members the Committee for 1973 is:

Chairman: A. Mathew
Committee: K. Kasthuri
 P. L. D. Abreo
 Capt. P. V. George (I.N.)
 B. B. Badwal
 Lt. P. A. John (I.N.)
 V. V. James
 Lt. Mathews
Honorary Secretary: V. L. Krisnamurthy

The meeting closed with a short speech on "Taxpayers money" given by Mr. S. Balachandran, I.A. and A.S., Senior Deputy Accountant General.

DELHI

Following the Annual General Meeting the committee for 1972/73 is:

Chairman: Rear Admiral C. L. Bandari
Committee: Commodore I. K. Malhorra,
 A.V.S.M.
 K. S. Subramaniam

Cdr. J. M. Bazaz, I.N.
 Lt. Cdr. Harpreet Singh, I.N.
 Shri G. S. Mann
 Shri S. M. Shukla
 Lt. A. K. Sood, I.N.
 B. R. K. Gupta

Honorary Secretary:
Honorary Treasurer:

MADRAS

The Annual General Meeting of the Branch was held on 14 February, 1973 at the Seafarer's Club. The Financial Report and The Annual Report were read and approved.

Following the usual election procedure, the Committee for 1973 is:

Chairman: G. S. K. Mohan Rao
Committee: S. M. Bhola
 R. Muthukrishnan
 S. Kasturirangan
 A. K. Das
 M. P. Judge
 H. I. Ganapati
 I. M. Rao
Honorary Secretary: D. K. Padalkar
Honorary Treasurer: J. P. Chopra

Overseas

CORK

The Annual General Meeting of the Branch was held at 20.00 on 25th January, 1973.

The Annual Report and Finance Account was read and adopted. This was followed by the procedures necessary for the election of the 1973 Committee. This is therefore:

Chairman: C. McSwinney
Committee: J. T. Thirlaway
 T. O'Hagan
 W. Howie
 E. Morgan
 M. Kavanagh
 P. Cullen
 J. McConnell
Honorary Secretary: J. F. Troy
Honorary Treasurer: T. O'Hagan

Proposals for arrangements during 1973 included the possibilities of changes of venue for the meetings and the adoption of more debates in the latter.

The resigning Chairman, Mr. J. T. Thirlaway, closed the meeting with thanks for the support of the Committee during his term of office, with special thanks to the Secretary and Treasurer.

The meeting was then followed by a film "Mastery at Sea" (N.A.T.O.) on loan from the Naval Service.

HONG KONG

The Committee for the Branch for 1972/73 is:

Local Vice-President: L. T. Williams
Chairman: J. McCarlie
Vice-Chairman: E. van't Sant
Committee: M. C. Taylor
 Q. M. Watt
 N. J. Matthew
 R. W. Rees
 L. Firth
 W. C. Chow
 D. Hay
 Lt. Cdr. E. Pidgeon, R.N.
Honorary Secretary: P. E. J. Davy
Honorary Treasurer: E. van't Sant

SRI LANKA

Following the 9th Annual General Meeting of the Branch on 24th January, 1973 the Committee is now:

Chairman: R. S. Seneviratne
Committee: D. C. Goonewardene
 S. R. Khare
 S. M. B. Dolapihilla
 Cdr. (E) E. L. Matthyaz
 Inst. Cdr. M. G. S. Perera
 Lt. Cdr. (E) D. C. D.
Honorary Secretary: Lecumwasam
Honorary Treasurer: S. A. Perera



The Institute of Marine Engineers

**Annual General Meeting
1973**

The Institute of Marine Engineers

76 Mark Lane, London EC3R 7JN

Minutes of Proceedings of Annual General Meeting 1973



The Annual General Meeting of the Institute was held at the Memorial Building, 76 Mark Lane, London, EC3R 7JN, on Tuesday, 24 April 1973, at 1730.

The President, Vice-Admiral Sir George Raper, K.C.B., took the Chair.

Minutes

The Minutes of the previous Annual General Meeting (held on the 25 April 1972) having been circulated with the November 1972 issue of *Marine Engineers Review*, were taken as read and signed as a correct record.

Introductory Remarks by the Chairman

The CHAIRMAN welcomed everyone to the Annual General Meeting, and said he would like to comment shortly upon three particular aspects which had presented important challenges to the Council, its supporting Committee and the Institute staff. First of all, financially the effects of inflation and latterly of the Government's counter measures had made necessary some very hard thinking, some changes in thought about financial budgeting for the future and some initiatives to keep the financing of the Institute's expanding activities on a sound basis. Added to this there was VAT, on the effects of which there had been a good deal of uncertainty.

The second challenge had been the continuing discussions with the Privy Council office on the new By-Laws. Although prolonged, and taking up much time, these discussions had been satisfactory and it was hoped that if the resolution on the agenda was passed the new By-Laws would shortly come into operation.

Thirdly, the consolidation of the Institute's position as part of the C.E.I. and the Engineers Registration Board had continued. The Institute had, through its representatives, made a real contribution to the formation of C.E.I. policies in various fields. He believed that the Institute represented a body of engineers for whom they had a real responsibility that their voice should be heard in the C.E.I., and it was satisfactory to note that due to some hard thinking and courageous representations over the last few years this responsibility had been properly discharged.

He then formally reminded corporate members that only those who had paid their subscriptions for the current year were entitled to vote.

Presentation of Annual Report

The DIRECTOR AND SECRETARY presented a summary of the Annual Report.

Presentation of Annual Financial Statement by the Honorary Treasurer

MR. R. COOK, M.Sc.(Fellow) pointed out that the Accounts were for the year ended 30 September 1972, so they were already seven months into the ensuing year.

Turning to the Revenue Account, he said the figures showed that after making allowance for funding and redemption provision the net income had increased by about five per cent as compared with the previous year. The cost of services provided

had, however, increased by some 12 per cent, with the result that they had moved from last year's surplus of nearly £10 000 to a deficit of £8222. This deficit, although relatively small, constituting some three per cent of total income, was, of course, a charge against the reserve fund and, therefore, unwelcome. It was, however, not unexpected and, indeed, the actual deficit was within four per cent of the budgeted deficit for the year.

They had, for the current year, budgeted for a substantial surplus. Although this might not be fully achieved, due to the effects of the recent "freeze" legislation, he was confident that the end of the current year would show a reasonable surplus.

Turning to the Capital Account, he said that the capital fund had increased by approximately £16 500, due mainly to the repayment of loan capital. The reserve fund showed a slight increase of just over £1000 in spite of the Revenue Account deficit. This had been due to a net profit on the sale of investments of between £10 000 and £11 000. The result was that the total assets had increased by some 2.64 per cent, an amount which was insufficient to keep pace with inflation. However, bearing in mind that these were book values, he personally considered them to be not unsatisfactory in such a highly inflationary period and such a difficult year.

Adoption of Annual Report and Accounts

COMMANDER W. J. R. THOMAS (Fellow), in proposing the adoption of the Annual Report and Accounts, said that a deficit of only £8000 in what had undoubtedly been a very poor financial year for the country, represented a reasonably satisfactory financial state.

MR. J. H. GILBERTSON, M.B.E. (Fellow), in seconding the proposal, said that having heard the comments made by the Treasurer in regard to inflation and Government restraint, they could compliment all concerned for keeping the deficit well within the budgeted figure.

The CHAIRMAN invited comments or questions on the Annual Report and Accounts.

MR. A. N. S. BURNETT (Fellow) said he would like to divide his remarks into the past and the future in relation to the Report and the Accounts. As he had said at the last two A.G.M.s, he felt that more time and space should be given to the future, both in the Report and at the meeting.

The Institute's income had risen by £10 000 in the last year, but on page A4 it would be seen that they had taken on three new staff members and had acquired a Telex machine. Three new staff members, plus the overheads they would generate, plus the Telex machine would probably absorb the vast majority of the increase of £10 000. He was aware that the subscriptions had also been increased, but it was very disturbing to find that the increase had been swallowed up so quickly.

It was stated on page A2 that the membership growth was satisfactory. He said he would like to know on what the growth was based. Was it based on the number of marine engineers coming out of the marine colleges per annum? Was it anything to do with the increased number of ships at sea? Was it related

Minutes of Proceedings of Annual General Meeting 1973

in some way to the extra services which the Institute supplied? If they did not know on what the growth was based they would never know why the increase occurred and what prevented more engineers from joining. If the curve flattened out they might be faced with staff redundancies. It was very easy to cut outside services but it was not so easy to cut something internally, namely increased staff members.

On page A10 there was an item of nearly £14 000 against Maintenance of Membership Register. He did not know what this large sum of money covered. Was it necessary? Could it be done another way, possibly by computer?

On page A12 it would be seen that the item for stocks held had gone up by 100 per cent over the year. Money must be used as usefully as possible, and stocks was one of the places where money could be harboured wastefully. Perhaps somebody could comment on why the stocks had increased by 100 per cent.

He said that his next series of remarks related to items in the Report which had some bearing on the Institute's future. On page A3 it was stated that *Marine Engineers Review* had expanded and become recognized. He endorsed this, but wondered if it should be expected to cover everything. Perhaps a new policy for *Marine Engineers Review* was required now that it had achieved a recognized and expanded state.

On page A1 there was mention of the creation of the Netherlands Branch, and on page A2 there was reference to SNAME. There was also reference on page A1 to the fact that a Western Joint Branch with the Royal Institution of Naval Architects had now been formed. Both in the Common Market and in the U.S.A. there was very little, if any, difference between a marine engineer and a naval architect. In the U.K. they tended to do things by half. In America they had just instituted an R and D programme for the energy crisis, for which more money had been allocated than for the Moon Programme. Could the Institute duck this question any longer? He asked for some comment on what was the Institute's future policy in this direction.

On page A6 there was the pleasing news that the Institute's Silver Medal had been awarded for a paper on Aircraft Power-plant Maintenance. In *The Times* of 18 April there had been an article about the £62 million cruiser for the Navy. This ship would be a hybrid between an aircraft carrier and a conventional cruiser, it would have helicopters and possibly Harrier aircraft, it would be a support ship and an anti-submarine ship. This was a fantastic representation of the expertise which was possessed in the Royal Navy. Both the President and the President Elect of the Institute had great experience of working together with marine engineers and naval architects. Perhaps something could come out of that, in relation to his last question. The marine engineering industry, and perhaps the Institute, had too many watertight compartments. They were in the age of the specialist, with marine engineers leaving the sea at the rate of knots. What part was the Institute going to play in trying to harness the variety of expertise which was represented by the aircraft industry? Lloyd's Register of Shipping were now employing engineers with aeronautical experience, so they were not behind the times. Perhaps they should be looking at the matter of training, or trying to get the Government R and D programmes orientated in a different way to help the commercial people as well as the Navy. It might be that they could combine more with the Navy on machine health monitoring techniques and on terotechnology. In fact, with the vast increase in membership from about 10 000 to 20 000 over the last ten years, maybe they ought to look to a new Charter.

Mr. J. J. WILSON (Member) said that he would like to plead on behalf of Student and Graduate members of the Institute in respect of the annual subscription they were required to pay.

Many junior grade members had low incomes or might be in receipt of a student grant only, and the annual subscription now introduced represented a much greater percentage of their income than for other grades of membership.

Everything possible should be done to encourage younger colleagues to join the Institute, for it was to them that the Institute must look in the future.

He would be pleased therefore, if this matter were given further consideration by the Council with a view to reducing the annual subscription rate for junior grade members.

The CHAIRMAN said that after the closure of the meeting there would be a statement by the Chairman of Council on the future activities of the Institute as a result of the suggestion put forward at the last A.G.M. by Mr. Burnett.

The CHAIRMAN OF COUNCIL (Mr. R. L. Rawlings), in reply to Mr. Burnett's question about the three new members of staff, said that two of these were self-financing in terms of the trading function with which they were involved. The third appointment had been that of Mr. D. Beaumont-Wright as Public Relations Officer. On his overseas tour he had discovered that there was a great need for public relations in terms of the Institute's widespread membership.

The DIRECTOR AND SECRETARY said that the growth in membership was very difficult to quantify. The Council had given a great deal of thought to the effect that the proposed changes in the By-Laws would have upon recruitment and the Institute's rôle in the future. "Satisfactory" was a most unsatisfactory word to use because it was self-satisfying. Nevertheless, on the sheer arithmetic the growth was not unsatisfactory. It might be that the Institute would pick up a lot of people who were presently members of other institutions who might think that the dividend offered by the Institute for £11 was marginally better than that offered for £X somewhere else.

The matter of subscriptions of students and graduates was giving the Council cause for anxiety, as were the figures for student membership in a quantitative sense. The intake into the student membership class in the first seven months of the year had fallen off quite considerably. He thought the figure was about 250. This was, presumably, partly because of the increased level of subscription, although within the last two years, at the then low level of £2, the rate of fall-off within this category had been something like 90 per cent per annum of the annual intake. What had probably happened was that a youngster who had been elected in, say, 1971 or 1970, by the end of 1972 had gone. Due to the tolerance of Council he probably had only paid one subscription and been left on the register for those two years, receiving all the services without any payment. This, in times of rapidly rising costs, was a situation the Institute could not subsidise any longer. However, the matter was under review.

Mr. COOK, replying to Mr. Burnett's question about the maintenance of the Membership Register, said that a computer for this purpose had been employed for some time, and a large portion of the extra £2000 was due to increased computer charges.

With regard to the question of stocks, he agreed with Mr. Burnett that one of the things that any prudent organization should do was to keep its stocks to a minimum, but he pointed out that the main item of stock was publications. In recent years the Institute had made a very rapid and quite remarkable increase in the sales of its publications, and the healthy figures for revenue of the Institute were in no small measure due to the profits made on the sale of these publications. Therefore it had been considered prudent to increase the stocks of these publications. It was regarded that this would be an investment which would result in sales, and hence profits, in future years.

The CHAIRMAN OF COUNCIL thought it was fair to say that *Marine Engineers Review* was still comparatively new in the publications world. It had made a terrific impact over a comparatively short period of time. He accepted the point made by Mr. Burnett, but pointed out that it was still "early days" for *Marine Engineers Review*. If they were going to be in full competition with the long-standing technical press he did not know if they would do as well as they were doing at the moment.

The CHAIRMAN, referring to Mr. Burnett's point about widening the field of the Institute, said that Council had given

Minutes of Proceedings of Annual General Meeting 1973

this matter a great deal of thought. Certainly they had made it clear to the Royal Institution of Naval Architects in past years, and in this year, that if they would like to talk about getting together the Institute would be very willing to do so, but the response had not been terribly encouraging. The Chairman of Council and he had in fact talked to the President and the Chairman of Council of R.I.N.A. on a continuing basis to see if they could draw closer in any way, but he pointed out that if one took the initiative in these matters one immediately put up barriers of suspicion and it was thought that one was trying to do a take-over. However, under C.E.I. sponsorship, an increasing effort was being made to get the various institutes and institutions to talk to each other and to see if there was a way of their working more closely together, collaborating, and so on. Certainly, as far as the Council was concerned, collaboration in conferences, and so on, was encouraged.

The Annual Report and Accounts were *adopted*.

Report of Scrutineers

The CHAIRMAN read out the Scrutineers' report and said that the President for the next session would be Dr. Simon Archer and that the following had been elected:

Vice Presidents

United Kingdom D. H. Alexander, O.B.E.
F. S. Gander
J. McAfee
J. McNaught
H. E. Upton, O.B.E.

Canada

India E. J. Jones
Rear-Admiral T. B. Bose, B.Sc., I.N.

Office Bearer—Honorary Treasurer

J. McNaught

Members of Council

F. A. Hay
B. Hildrew, M.Sc.
W. McClimont, B.Sc.
N. S. Swindells
A. J. Wharton

Associate Member of Council

J. H. Gilbertson, M.B.E.

Vote of Thanks to Scrutineers and Reappointment for 1973/74

MR. R. COOK, M.Sc. (Honorary Treasurer) said that only recently had he realized fully the nature of the duties which the scrutineers performed. This involved them in a whole day's work, morning and afternoon. He therefore proposed a hearty vote of thanks to the Scrutineers, namely Mr. E. R. Hall, Mr. A. L. Covell, Mr. L. H. Howe and Mr. C. H. Rispen. He also formally proposed their reappointment.

The vote of thanks was *carried by acclamation* and the motion concerning the reappointment of the Scrutineers was *carried*.

Special Business

The CHAIRMAN OF COUNCIL proposed the following resolution:

"That the wording of the Resolution concerning proposed By-Laws passed at the Annual General Meeting on 25 April 1972, should be amended as follows:

the words 'the first day of November 1972' in the first paragraph to be deleted, and the words 'the date by which the Institute of Marine Engineers shall receive from Her Majesty's Most Honourable Privy Council an Order approving the said By-Laws, and accepting this Resolution'.

the word 'Associates' in the second column of section (i) of the Resolution to be deleted, and the word 'Consociates' to be substituted in its place."

MR. J. MCAFEE (Fellow) seconded the resolution, which was *carried*.

Other Business

MR. I. W. ROBERTSON, V.R.D. (Fellow) said that he felt there was an inequality in the Institute which could not be measured in terms of remuneration, immediate results or instant successes, but rather in the imbalance of who was who and who was considered to matter, not those who really mattered. Those who really mattered were the vast number of members who made up the majority. Those present in the hall, who were there either to be seen or to see, were perhaps by default leaving the Institute to fall into the hands of those who were willing to do something—even if it was for their own ends—who were willing to do something—anything.

By not involving themselves, this great Institute appeared to be falling and would fall further. They were in the hands of a minority. Topically, perhaps, he would say that, as in the days of the Irish Obstruction at Westminster, Gladstone had described the Irish Members' speeches as sometimes rising to the level of mediocrity. He suggested that what they had just heard met this assessment perfectly. They had been assailed on every side by "Well done, old chap. I will scratch your back if you will scratch mine." What was needed was a bit of new life and a lot less hypocrisy. This could be achieved by the people in the hall who had kept quiet and by those who had not bothered to attend, but who would read the Journal. They knew what was wanted. Why was it that every year there were nominations for Council by Council? Why was it that those who put their names forward for election were such a confined and narrow group? It was not that they were necessarily out for their own ends, and that they were a bad lot. They were very often genuine men who felt they had something to offer. It might be a short-term panacea to comfort oneself with the knowledge that the Institute was run on democratic lines. So many crass, stupid and hypocritical words had been spoken in defence of democracy. It was not a question of having a democratic charter and lovely flowing English prose to back up those ideals. It was a question of Council and those at the centre, the Institute staff, who must see to it that those down the line felt that the Institute was not only seen to be run on democratic lines but actually did run on democratic lines. This was not a one-sided affair, however. The members, visible and invisible, had their part to play just as much as the serried ranks of the faithful who could be seen decorating the platform and the first few rows. They were all members of the Institute. If they were members for any other reasons than that their firms thought it was a good idea or the initials M.I.Mar.E. looked good on their cards, then they should do something. The percentage of the total membership who actually voted would never be known, except to a very few, but if it were shame must face them all. What was the point of belonging to an institution if it did not want to do what the members wanted it to do? He did not want the Institute to be a pale copy of other learned institutions. He wanted it to be the Institute of Marine Engineers, of which they were proud to be members, and not just a cosy corner for the boys who by age, seniority, type of employment or other rather less agreeable reasons, were able to control the fortunes of the Institute.

If the Council and its long-serving Director and Secretary really wished to promote the aims and general well-being of all marine engineers, charter or not, they would do well to make it possible. They should encourage and foster a new look, and that new look should require that the Institute should be run for the benefit of all, by a few possibly, but not for the benefit of a few by a few definitely. As an example he suggested that the meetings which were held of the various committees could be held at times convenient to those who could attend. If they wanted to get a good cross-section of people then they should have meetings not at 10.30 in the morning, 12 o'clock or 2.30 in the afternoons, but at times when really hard-working marine engineers could attend.

He urged all members to do something and to take an interest in "running the show", and he charged Council, the Director and Secretary and the staff of the Institute to make it possible.

Minutes of Proceedings of Annual General Meeting 1973

Finally, he said it seemed to him stupid to call the A.G.M. on the day following a public holiday. There could be no sensible reason for this. There was a total of 40 people present, which was ridiculous. Perhaps the central direction of the Institute had felt that by calling the A.G.M. on a day following a public holiday they would ensure a low attendance, and thereby reduce the possibility of any thwarting of policy which it wished to push through.

The CHAIRMAN OF COUNCIL reminded Mr. Robertson that his suggestion that all meetings of Council should be in the evenings presumed that everyone on Council or committees lived in London. It so happened that he was only the second provincial Chairman of Council in the 80 odd years of the Council's existence. Branch members had made their contributions to the Institute's deliberations and had proved that they had a contribution to make. If there were provincial members of Council it made sense to have meetings during the day so that people did not have to spend two nights in London and thus incur extra expense. He had discussed this matter personally with Mr. Robertson and had moved meetings on occasion of the committee Mr. Robertson was on to four o'clock to meet the point he had made.

There were 69 members of Council in the U.K. Therefore, by no stretch of the imagination could it be said that there was any sense of "jobs for the boys". He was quite sure that his provincial Branch associates would accept that the present constitution of Council was as democratic and as broad based as it could possibly be.

MR. ROBERTSON remarked that it was ironic that there were 69 members of Council and only 40 odd people present at the meeting.

The CHAIRMAN OF COUNCIL said that the average attendance of Council was about 40.

He pointed out that there was a calculable band of dates for the A.G.M. in accordance with the By-Laws. It so happened, because of the By-Laws situation, that the farthest away date had been chosen this year which was within the By-Law requirements, to give the situation more time to settle down. Also, Easter had come late this year.

The CHAIRMAN said it was always welcome to have somebody with the idea that the whole organization should be shaken up. As Mr. Robertson had said, it was up to the membership to do the shaking up, if they felt so inclined.

He thought it was unfair to attribute to members of Council or any of the organization disreputable motives. It was, in fact, the very few people who were prepared to devote enough time to the Institute's activities who were elected time after time in Branches and everywhere else. It was a form of sacrifice which was not all that common, which one naturally welcomed and would welcome a great deal more of.

Referring to Mr. Robertson's remark about the Institute being a pale copy of learned institutes on a higher plane, he said that as a result of the visit round the world made by the Chairman of Council, the Director and Secretary and himself, it was quite obvious that the publications and the standard of what the Institute produced for its membership was thought of as being far more appropriate to their business than the publications of other institutes, institutions or societies.

Vote of Thanks to the President

The CHAIRMAN OF COUNCIL (Mr. R. L. Rawlings) said it was his very pleasant duty, on behalf of all the membership, to place on record their grateful appreciation for the diligent services rendered to the Institute by the President, Vice-Admiral Sir George Raper. He had not only qualified for the post by his distinguished service and naval rank, but also in his own right by his long and active association as a member of the Institute. If one reflected on his impressive career one became aware of his dedication to the naval service and to the maritime profession as a whole, and one appreciated why there was no one more able to

understand and to propagate the widening horizons of marine technology or, indeed, the broader concept across the many inter-disciplinary frontiers of engineering science. For such had been the vision and the contribution of Admiral Raper. His concern that more serving naval engineers should be seen to be brought into closer and more active association with the Institute had found practical expression in the recent very successful multi-membership conference. It was to be hoped that this idea of so involving the wider pattern of membership, both in the U.K. and overseas, would be pursued with increasing emphasis as a regular feature of the Institute's learned society function.

On a personal note he said he would like to acknowledge Admiral Raper's staunch support, encouragement and sage counsel during his term of office.

It was with the greatest of pleasure that he proposed the vote of thanks to the President.

The VICE-CHAIRMAN OF COUNCIL (Dr. S. Archer) said that he was prepared to brave the accusation of back-scratching in seconding Mr. Rawling's remarks. He believed it was true to say that Admiral Raper had clearly demonstrated his deep concern for the best interests of the profession, and not least for the welfare, education and training of the marine engineer, whether afloat or ashore, in naval or marine service. He had also spared no pains to immerse himself in the many and diffuse activities of Council and its various committees, and had represented the Institute with distinction on numerous occasions, both technical and social, in the U.K. and abroad. He would be long remembered among the Institute's many outstanding Presidents for his support and help to the Institute and his forward-looking views on the changing nature of the marine engineering profession, and the need to adapt in good time to meet such changes, not least on the international scene. For those who had been privileged to work with Admiral Raper, and had thereby appreciated some of his personal qualities, it was perhaps his blend of modesty and humanity, together with a keenly developed sense of humour, which had stood out particularly. These characteristics, coupled with boundless energy and a wide knowledge of men and machines, had undoubtedly contributed to the notable success of his presidential year.

It was with great pleasure that he seconded the vote of thanks.

The vote of thanks to the President was *carried by acclamation*.

Reply by the President

The PRESIDENT, in reply, said he was very indebted to the Chairman of Council and the Vice-Chairman for the generous terms in which they had proposed and seconded the vote of thanks, and to those present for the way in which they had responded. However, the whole thing was grossly unfair. If ever there was a case of "It's the rich what gets the pleasure, it's the poor what gets the blame", this was it, because it was they who had done the work, not he.

The Chairman of Council, Mr. Rawlings, had been tireless in his efforts to serve the Council and the membership during his year of office. He had always been one to make more than a normal contribution in whatever he had undertaken for the Institute, but now that he had retired from being paid to work he had worked even harder to serve the Institute. There had been an exceptional number of meetings of committees which he had attended during the year, and he had also attended many Branch functions. He had also gone on a very strenuous world tour visiting the various overseas Divisions and Branches. In all this he had really earned everyone's most genuine thanks.

The Vice-Chairman, Dr. Archer, had also provided loyal support in many ways, and it was gratifying to see him in full health again after the difficult time he had had a year ago.

He thanked the Honorary Treasurer, Mr. R. Cook, for his continued hard work and guidance in financial matters as well as in many other Institute activities. This last year was, to everyone's regret, his last as the Honorary Treasurer. His had been a long history of devotion and indefatigable support for the Institute.

Minutes of Proceedings of Annual General Meeting 1973

Not only had he been Chairman of Council, but also for many years Chairman of the Papers Committee and a member of the Membership Committee, and he had been Honorary Treasurer since 1966. He offered, on behalf of Council and all the members, heartfelt gratitude to Mr. Cook for his exceptional services, and wished him every happiness in the future. He hoped they would see Mr. Cook from time to time, at least as a member of the Guild of Benevolence Committee. He was sure that his cheery smile, air of utter confidence and reliability would continue to help those around him.

He then went on to thank all those who did the hard work in comparative obscurity, the Chairmen and members of the various Committees, those who dealt with the day-to-day business, voting papers, checking qualifications and doing a host of things which members were called on to do once they showed willingness to help. This applied not only to Headquarters, but also to all the Branches. The degree of inspiration provided by some individuals to make their Branch really hum was to him a continual source of admiration, and he said he would like to thank the Branch Officers very much for their work and enthusiasm.

It was difficult to say enough about the kindness and conscientiousness and the standards that Headquarter's staff set themselves in all that they did. It had only been in the past year that he had really come to appreciate how well the Institute was served and how much everyone owed to the staff in every way. One knew that conferences, social functions, official functions, and so on, would be efficiently and well run to high standards, and this said a great deal for the committees as well as the staff. The standing and reputation of the Institute in the last resort depended upon the standards that it exhibited in all it did. This required a lot of hard work by committee members and a lot of detailed organization and forethought by the staff. That these standards had been progressively advanced over the years was something for which everyone was very grateful indeed.

He asked all members to join with him in extending a very sincere vote of thanks to the members of Council, the Branch Officers, Committee members and the staff.

The vote of thanks was *carried by acclamation*.

Reply by the Chairman of Council

The CHAIRMAN OF COUNCIL, on behalf of members of Council, office holders, committee members and all members of the permanent staff thanked the President for his kind appreciation of their work, and members present for their keen acknowledgement of it. The office of Chairman of Council was both an honour and a privilege, and he considered himself fortunate to have been given the confidence of Council and to have experienced their co-operation and keen interest in all Council matters. He had received the utmost co-operation from everyone concerned, from the permanent staff to the membership generally.

He thought there was an enthusiasm generated within Council which was quite remarkable. Each member contributed to its effectiveness, and he was sure that in such a pleasant and workmanlike atmosphere all Council members really enjoyed their periods in office. He was equally sure that the effectiveness of Council was largely due to the very efficient permanent staff, so ably directed by Mr. J. Stuart Robinson. He was quite sure that all the permanent staff from Mr. Robinson downwards also enjoyed their work, and appreciated what had been said about them.

In conclusion he said he would like to be personally associated with the President's remarks in relation to the Council and members of staff.

Presentation of Medals and Awards by the President

The presentations of medals and awards were then made by the President.

The CHAIRMAN then closed the meeting.

