

# The Institute of Marine Engineers

## 76 Mark Lane, London EC3R 7JN

### Annual Report of the Council and Accounts for the year ended 30 September 1981

The work of the Council for the year ending 30 September 1981 has not been helped by high interest rates, continuing high rates of inflation, even though they have been coming down, and also the lack of finality in the discussions to form the Engineering Council, debates about which have continued in extenso throughout the period. A short reference is made to these matters later in the Report under the heading CEI Affairs. The September Bulletin carried an extensive entry on the Engineering Council and referred to the appointment of Sir Kenneth Corfield as the first Chairman.

In the limited comments of introduction to the Report it is necessary to underline the importance of the Institute being included as a nominated institution under the terms of the Charter of the Engineering Council. One of the primary reasons for this is that the award of the title of Chartered Engineer is vested exclusively in such nominated institutions. It is proposed that the registration function will be carried out under the aegis of the Engineering Council and will be exclusive to that Council.

With this matter specially in mind and again referring to an item later in the Report, the Council at its last meeting of the year (28 September 1981) agreed to a motion of adjournment being put to the Extraordinary General Meeting to be held on the 19 October, by which the business of that meeting, namely a number of important changes in the By-laws to give Corporate membership to a limited number of senior engineers employed in responsible positions, particularly afloat, who had not attained the academic standard required by CEI, be put in abeyance. This decision was taken because it had become apparent that CEI would still be the authority to whom Privy Council would submit the new By-Laws and not the new Engineering Council as had been anticipated. At no time did Council consider any departure from CEI. When EC is established the title of Chartered Engineer will be awarded to those engineers on Stage 3 of the EC Register who are also Members of a nominated Institution. The criteria for being a nominated Institution are not yet known.

A Joint Standing Committee of representatives of the Royal Institution of Naval Architects and of the Institute has been established and has met on a number of occasions, the first in May, examining where close collaboration could be beneficial to both societies in carrying out certain functions. One of these might be a co-ordinated effort in the education and training field.

Apart from the problems mentioned above the Council is concerned that the membership for the successive year has dropped and now is 17,857. This means that from the peak attained in 1974 of 21,666 there has been a total drop of some 3,809 or 17.6%. Add to this another statistic, namely a drop in the attendance of meetings also referred to in the Report, which of course is not unique to the Institute, and the question is posed of determining what might loosely be termed member interest. The attendance matter is being experimented with in the forthcoming session by the holding of some meetings earlier in the day.

During the year the President has made himself available for discussion about Institute matters on two occasions at London Headquarters and at various branches—visits to North Midlands and South East England branches have taken place, and further visits to branches are planned.

He has visited South Africa, accompanied by his wife, (Johannesburg, Durban and Cape Town—21 March—8 April) amongst other engagements attending the Annual General Meeting of the South African Institute of Marine Engineers and also Malta—24/27 April 1981 where one of his engagements was the Malta Joint Branch Dinner.

The President, accompanied by the Director and Secretary, visited Canada (Toronto—3/5 June 1981) and attended the Annual General Meeting of the Canadian Institute of Marine Engineers.

The President will be attending Rio in October 1981 for the purposes of the RIOMAR Conference and Exhibition, and

the Council has agreed to his accepting an invitation from the Australia/New Zealand Division to attend the Divisional Council Meeting and tour branches in November 1981.

The Deputy President will be visiting Hong Kong from the 11/18 October 1981 for the Ship Asia Conference, accompanied by his wife.

#### OFFICERS AND MEMBERS OF COUNCIL

Mr. J. McNaught succeeded Mr. L. D. Trenchard as President and Commander E. C. Pidgeon was elected Deputy President. Mr. G. McNee was re-elected to serve as Honorary Treasurer. Mr. A. J. Wharton was co-opted to fill the casual vacancy of Fellow and Mr. D. W. Crosby was appointed Vice-President of the Australia/New Zealand Division.

#### COUNCIL

The Council met on seven occasions during the year. Reports of the work carried out through delegated powers follows.

##### Council Advisory Committee

The various specialist groups of the Council Advisory Committee met frequently throughout the year.

##### a) Office Bearers

Considered not only nominations for office holders of the Institute but also representatives on outside bodies.

##### b) Policy Affairs

Consideration was given to a Corporate Plan and the future policy of the Institute during which discussions took place on the whole question of corporate membership resulting in recommendations to Council for By-law changes in the membership structure. The RINA/IMarE Joint Standing Committee continued to meet and is actively progressing towards greater co-operation between the two Institutions as referred to in the introduction.

##### c) CEI Affairs

The many discussions centred on the establishment of the new Engineering Council and the Department of Industry Draft Charter which was submitted to H.M. Privy Council in July 1981. The Institute had been represented at meetings between interested parties including the Department of Trade, the Council of Engineering Institutions, Employers Federation and Academics.

The Institute has continuously emphasised that marine engineers must obtain their rightful place on the National Register and that it was of paramount importance that the Institute be included in the list of nominated chartered engineering institutions for the purposes of accreditation and certification of training.

##### d) By-Laws

Following the approval by members at the Annual General Meeting of the Institute held in March last to the revisions of By-laws 23 and 37 an Order of Council dated 20 August 1981 was received from H.M. Privy Council giving consent to the changes requested i.e. allowing Associate Members to use designatory letters (By-law 23) and reinstatement to the membership roll within a period of three years from the date of deletion (By-law 37).



## Annual Report of the Council for 1981

The By-laws Group has been actively concerned in reviewing the Institute's By-laws at the behest of the Council of the Institute and in order to implement the views expressed by the President at the Institute's Annual Dinner undertook the task of making alterations to the membership structure accordingly. These alterations are to be the subject of an Extraordinary General Meeting to be held on the 19 October 1981, details of which accompanied the notice of meeting sent to all members of the Institute.

### DIVISIONS AND BRANCHES

#### Australia/New Zealand Division

The Vice-President of the Division, Mr. D. W. Crosby and the Divisional Secretary, Mr. K. Murray visited London Headquarters for a period of 5 days in July of this year and met the Council and Officers of the Institute. This was the first time in recent years such a visit had taken place and Mr. Crosby in addressing the Council said that he had gained an insight into the working of the Headquarters establishment. Mr. Crosby gave an assurance that the Australia/New Zealand Division intended to continue as part of the London Institute. During discussions the question of members in Pacific Basin Countries arose and the Council agreed to the Division's suggestion that they accept responsibility for such members, i.e. Papua & New Guinea, Solomon Isles, New Hebrides, Fiji, etc. through the Queensland and Auckland Branches.

#### India Division

The inauguration ceremony forming The Institute of Marine Engineers (India) took place on the 2 October 1980 with the President (Mr. L. D. Trenchard) and the Director and Secretary in attendance. Dual membership arrangements are now well established.

#### Branches

Headquarters has continued to supply services to Branches in the way of printing and distributing information on branch activities etc. The meeting of the Honorary Officers of Branches was held at Headquarters in March 1981 at which all Branches were represented. Lively discussion took place on many subjects amongst which was a recommendation for a reduction in the age of entry of the class of Consociates from 17 to 16 years. This was subsequently agreed by Council.

In view of the financial hardship experienced by a number of Branches Council agreed to an increase in the basic branch grant on a sliding scale which it was hoped would be of advantage to smaller Branches.

#### Canada

The President and the Director and Secretary attended the Annual General Meeting of the Canadian Institute of Marine Engineers in June 1981. Following detailed discussions on the membership of both Institutes agreement was reached in principle for the establishment of dual membership facilities similar in principle to those enjoyed by The Institute of Marine Engineers (India).

### FINANCE AND ACCOUNTS

The Revenue Account on page 11 reflects the following significant matters:—

- Subscription income was in line with budgeted expectations which had envisaged a further fall in membership.
- The excess of Expenditure on Membership Services over Income from Members' Subscriptions was equivalent to approximately £6.50 per capita, which was lower than 1980.
- The interest paid to the merchant banker was much reduced because of two repayments of principal (total £204,902) and lower rates of interest prevailing for some months during the year under review. The interest paid was £93,688 which has again been charged to the Revenue Account.
- The surplus for the year before appropriations amounted to £368,477 which compared favourably with the previous year's figure of £238,925.

The Appropriation Account on page 13 shows that after making appropriations of £303,374 there was a net surplus available to be carried forward of £64,487. The Appropriations Account shows for the first time sums placed to two Funds which have been set up to make available cash against anticipated future expenditure on the Memorial Building (£60,000) and on

the Leasehold Redemption (£28,000). By adding the prior years figure of £22,000 on Leasehold Redemption there will now be a total of £50,000 in this Fund.

The Reserve Fund therefore stood at £179,231 at 30 September 1981.

The Balance Sheet on page 14 demonstrates *inter alia*:—

- Provisions for anticipated costs brought forward from prior years have been found to be too high, resulting in a reduction of the Balance Sheet value of the Leasehold Property of £9,778. Baker Harris Saunders have valued the Leasehold property at £8,500,000, which is an increase of £150,000 over that of a year ago.
- The book value of the net assets of the Institute increased by £362,611 to £1,853,456.

This increase arose as under:—

	£	£
Surplus per Revenue Account	....	368,477
Less: Donation to Guild of Benevolence	....	5,250
Net Loss on sale of Fixed Assets	616	5,866
		<u>£362,611</u>

- The cash held in respect of Leasehold Redemption and Property Maintenance Reserve Funds is to be placed on deposit and the interest so attracted is to be added to the Funds.

### MARINE MANAGEMENT (HOLDINGS) LIMITED

The affairs of the Company are reported under the headings of each of the three Divisions. The profits of the Company are transferred to The Institute of Marine Engineers in full by covenant.

#### Activities Division

The year has been one of continued development for the Division, and in particular overseas contacts were an area of advancement. Each activity is now commented on.

#### Social Events

Attendances were as follows:—

Conversazione	1058
Annual Dinner	1368
Charity Ball	224

The Charity Ball realised £2,040 for the Guild of Benevolence by way of donations, tombola and raffles.

#### Conference Centre

Once again this was a year of economic ups and downs. Conferences and exhibitions are immediate victims in times of financial restriction, and new fields of possible clients had to be investigated. These efforts were rewarded and the success achieved was to a great extent due to the efforts of the Conference Centre Manager.

#### Book and Publications Sales

##### (i) Book Sales

This consisted of a straightforward selling operation concerning our own book list and certain publications of other publishers supporting the training courses for marine engineering qualifications. The year's trading figures were indicative of the good sales which had been achieved. Such sales were linked with the Division's overseas activities, and in particular the close relationship with IMCO.

These major supplies of books to overseas educational establishments included considerable quantities of other publishers' books, and the final despatch was far more than a straightforward bookselling operation; it was in fact a package deal including advice on suitable books to support a particular curriculum.

One direct result of dealing with other publishers for large quantities of their books was that maximum discounts were given on all purchases, whether bulk or single volume, and some of this discount was passed on to members as part of the service provided by the Institute.



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## MEMBERSHIP TABLE

1 October 1980 to 30 September 1981

	Total B/F 30 Sept. 1980	Elected	Transfer To	From	Reinstated	Resigned	Deceased	Lapsed	Total 30 Sept. 1981	Increase or Decrease
Fellows	6551	28	56	Nil	29	111	98	132	6323	-228
Members	6151	83	37	48	37	35	33	163	6029	-122
Associate Members	1912	241	74	31	15	14	3	128	2066	+154
Associates	767	85	8	47	6	9	Nil	55	755	-12
Consociates	2883	141	Nil	49	24	63	18	242	2676	-207
Companions	3	—	—	—	—	—	—	—	3	—
Honorary Fellows	3	—	—	—	—	—	—	—	3	—
Past Presidents	2	—	—	—	—	—	—	—	2	—
<b>Total</b>	<b>18,272</b>	<b>578</b>	<b>175</b>	<b>175</b>	<b>111</b>	<b>232</b>	<b>152</b>	<b>720</b>	<b>17,857</b>	<b>-415</b>

### (ii) Publications Sales

This operation concerned the sale of MER subscriptions, technical reports and conference proceedings. Each of these required a different selling technique.

MER subscriptions had to be sold in direct competition with international commercial shipping journals and even these companies were experiencing a harsh economic climate for their printed word.

Technical reports and conference proceedings being by nature specialised productions had a limited sales potential. Purchasers were selective, and only ordered papers which concerned their particular sphere of interest.

By selective mailings, sales were maintained for these productions.

To conclude this section, it is necessary to mention the popularity of Marine Engineering Practice Vols. 1 and 2. As a result of bulk sales, certain parts were sold out and had to be re-ordered far in advance of normal expectation. This fact is reflected in the book cost figures.

### Overseas Activities

These expanded to such a degree that a modest newsletter was introduced to keep this worldwide network informed of any new developments.

There are now nearly one hundred of these overseas contacts, the most recent being the People's Republic of China, and Nigeria.

Correspondence with Spanish and Portuguese speaking countries became a regular feature with much of the correspondence being conducted in their own language. This did not pose a problem as the letters were translated and replied to in the respective language by a number of the Divisional Staff.

Two matters of interest which occurred during the year were direct results of the overseas contacts.

### People's Republic of China

1. In November, a party from the Hong Kong Joint Branch visited Canton (Guangzhou) as guests of the Chinese Society of Naval Architecture and Marine Engineering. This visit was a development which arose from the Chinese tour in September 1980.
2. Preliminary discussions commenced on the possibility of a major conference in Monaco, to be held in January 1983. This arose as the result of a suggestion by a member resident in Monte Carlo who receives the newsletter each month.

It is interesting to note that in virtually every training establishment where books have been supplied, there has been a member of this Institute occupying a senior position.

This fact is an indication of the esteem given to British training methods by developing countries, and a tribute to the quality of Institute membership.

### Management Division

#### Subscription

The rates of subscriptions for the twelve months from 1 October 1981 will be:—

Class	Annual Subscription	Annual subscription for those in Bangladesh, Egypt, India*, Pakistan & Sri Lanka
Companion	£34.00	£26.00
Fellow	£34.00	£26.00
Member	£34.00	£26.00
Associate Member	£34.00	£26.00
Associate	£34.00	£26.00
Consociate	£34.00	£26.00
Consociate (below the age of 22 years)	£12.00	£12.00
Retired Members	£7.50	£7.50
Retired Members without MER/Bulletin)	£5.00	£5.00

\* Members in India concurrently members of the Institute and The Institute of Marine Engineers (India) will be subject to a subscription rate reflecting that dual membership.

#### Membership

Bi-monthly meetings were held to scrutinise applications for elections and transfers, each application being considered entirely on its own merit, thus ensuring that standards laid down in the By-laws were being maintained.

It was disappointing to note that the total number of elections for the year had decreased. Elections to the Corporate class of membership decreased in the class of Fellow by 3 to 28 (1980 31) but increased in the class of Member by 29 to 83 (1980 54). Despite an overall decrease in elections to the non-Corporate class, the largest decrease being in the class of Consociate which was reduced by 105, there was however an increase of 154 in the class of Associate Member making a total of 2,066 (1980 1,912), this being the only class of membership to show a continued increase, due to substantial support from those applicants holding a Department of Trade Class I Certificate of Competency. Resignations increased by 59 to 232 (1980 173) after last year's encouraging downward trend. The total membership figure fell by 415 (1980 528). It was gratifying to note that the number of members removed from the roll for the non-payment of subscription continued to decrease.

Members are once again reminded that if they undertake to support an applicant for membership of the Institute by acting as proposer or seconder they must verify the information given on the application form. Full information is required as to the applicant's academic qualifications, training and experience i.e. full details of sea service and professional job responsibility.

All application forms must be accompanied by the entry fee and first annual subscription.

#### Members who Qualified for Certificates of Fifty Years Service

Mem. No.	Name	Branch	Date Elected
ME. 6646	J. M. Bain	(AV)	6/2/31
FE. 6614	M. J. Barrett	(EFR)	5/1/31
CO. 6730	E. A. Beavin	(JBS)	4/5/31
FE. 6854	H. Black	(SEE)	6/7/31
FE. 6761	Wm. G. C. Butcher	(AS)	5/1/31
ME. 6520	G. W. G. Canter	(LHC)	6/10/30
ME. 6600	H. G. Collins	(SEE)	3/11/30
ME. 6638	F. R. Dale	(SW)	6/2/31



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ME. 6591	B. D. Davies	(LHC)	1/12/30
FE. 6684	N. A. Grieves	(AS)	2/3/31
FE. 6689	W. R. Harding	(CGL)	6/2/31
FE. 6955	D. Harms	(JBS)	7/9/31
FE. 6744	C. Hay	(ABM)	13/4/31
FE. 6563	J. F. Ingham	(DC)	3/11/30
FE. 6732	J. F. James	(LHC)	8/9/30
FE. 6831	J. E. Kedzie	(SW)	7/9/31
CM. 6588	C. E. Lee	(LHC)	1/12/30
FE. 6594	J. W. Lees	(S)	6/10/30
FE. 6855	B. Le Roux	(WM)	7/9/31
FE. 6702	J. H. Mackinlay	(SEE)	13/4/31
FE. 6551	L. W. Mann	(WM)	3/11/30
FE. 6619	L. S. Maxwell	(AS)	5/1/31
ME. 6654	J. P. McIver	(S)	6/2/31
FE. 6613	D. Muras	(NEC)	5/1/31
FE. 6606	F. T. Newcombe	(S)	5/1/31
FE. 6704	A. R. Paterson	(S)	13/4/31
FE. 6718	C. Ritchie	(OD)	13/4/31
FE. 6877	A. L. Roberts	(SEE)	7/9/31
FE. 6758	R. N. Rodericks	(IB)	3/4/31
FE. 6537	G. Y. Row	(KHH)	6/10/30
FE. 6714	H. A. Samuel	(NEC)	13/4/31
FE. 6683	E. Shields	(PET)	6/2/31
ME. 6841	F. A. Smith	(NWE)	7/9/31
FE. 6529	G. F. Smith	(NEC)	6/10/30
FE. 6740	H. T. Spearpoint	(OCT)	1/6/31
FE. 6604	J. Spray	(JBS)	5/1/31
FE. 6703	D. H. Sword	(S)	13/4/31
FE. 6553	C. M. Swainston	(NEC)	3/11/30
FE. 6662	A. N. Tipper	(SEE)	2/3/31
FE. 6530	E. F. R. Townshend	(LHC)	6/10/30
FE. 6667	L. H. R. Wainwright	(SW)	6/2/31
FE. 6640	A. A. Warden	(NWE)	5/2/31
FE. 6791	H. F. Widdas	(SW)	6/7/31
FE. 6573	J. Wilson	(S)	1/12/30
FE. 6753	T. R. Worrall	(SEE)	1/6/31
FE. 6571	R. C. Youngs	(LHC)	1/12/30
FE. 6558	L. C. Best	Address Wanted	3/11/30
FE. 6716	A. Grasselli	Address Wanted	13/4/31
FE. 6648	H. R. Hall	Address Wanted	6/2/31
ME. 6628	V. Motion	Address Wanted	5/1/31
FE. 6849	M. D. E. Williams	Address Wanted	7/9/31

### Education and Training

The Institute is in the process of recruiting a full time Education and Training Officer.

In the meantime an endeavour has been made to continue the activities of this function. During the year the administration of the Lloyd's Register of Shipping Scholarship Award continued, coupled with the Institute's own awards and prizes. Also, the Institute agreed to award a new certificate jointly with the University of Surrey to recognise formally the practical training which forms an integral part of the Surrey degree course in mechanical engineering (marine option). Accreditation of degrees at the Royal Naval Engineering College, Manadon and Southampton College of Higher Education was completed. A submission to E.R.B. for continued accreditation of the D.O.T. Extra First Class Certificate was also made.

A number of training schemes was considered by the Professional Affairs and Education Committee.

### Media Division

The Division is responsible for organising the learned society activities of the Institute such as evening meetings, conferences and the Library Information Service. The Division is also the Institute's publisher and publishes the MER, Bulletin, Transactions and Text Books.

### Evening Meetings

For reasons of economy the number of papers was restricted to twelve. The last few years has seen a steady decline in the number of people attending evening meetings, and in the next session some of the papers will be presented at afternoon meetings as an experiment to see if there is any improvement in attendance figures. Comments and suggestions on this problem which is affecting all Institutions is invited.

One copy of each of these transactions is sent free to members who have registered for automatic despatch. Members who have not registered and do not want a copy of every transaction will be sent the relevant copy on request. The Transactions are published 6-9 months after the paper has been presented.

### Annual Index of Transactions

An annual index is now published which is sent free to members who have registered for the automatic receipt of transactions and is available to other members on request.

### Conferences

#### i) *The Use of Organic Fluids for Waste Heat Recovery in Ships and Industry*

The two day conference was held at the City University, London in association with the City University and the Institution of Mechanical Engineers. 89 people attended.

#### ii) *Future Alternatives for Marine Propulsion*

The one day symposium was held in association with the Ship and Marine Technology Requirements Board (SMTRB) of the Department of Industry and the Royal Institution of Naval Architects. The attendance was 267 and to avoid having to reject any applicants the venue was moved at short notice to the Queen's Room, Baltic Exchange. The symposium reported on some of the recent R & D work carried out for the S.M.T.R.B.

#### iii) *Welding in Ship Repair and Maintenance*

This seminar for marine engineers was held in conjunction with and organised by the Welding Institute. 64 People attended.

The Transactions for events (i) and (ii) above are available for sale to members and non-members.

### MER and Bulletin

As from April 1981 the MER and Bulletin were separated and the latter was increased in size. The first issue of the Bulletin was dated May 1981. These publications are sent to the Post Office for bulk posting as follows:—

MER on 10th of month

Bulletin on 25th of month

Both publications are now being sent to members living outside Europe by "Accelerated Surface Post" which should take a maximum of one month to reach anywhere in the world. The Managing Editor would like to hear from members if this time is exceeded.

Branch reports received during the year were more plentiful and of higher technical content but few illustrations were received. The Editor invites branches to send copies of papers read to them with illustrations for possible publication. Photographs should be clear and black/white as colour pictures reproduce poorly.

Other marine engineering news from branch areas would also be most useful for MER. Branch publicity officers are invited to send cuttings from local papers, and reports from members on their professional activities, if relevant, stating name of source and date. With co-operation from the worldwide membership MER could be a first class news medium but technical information and recent company policy decisions are rarely received via members.

During the year the cost of paper for the MER and Bulletin was again reduced and, by using several new printers, the unit cost of printing the transactions was also lowered. This should help to offset the cost of separate publication for the Bulletin.

### Technical Books

"The Operation of Machinery in Motorships: Main Diesel Engines, Boilers and Auxiliary Plant" by A Norris, C.Eng., F.I.Mar.E was published during the year as Part 18 of Volume 2, Marine Engineering Practice. Mr. Norris has now written three parts for this series, Part 12 deals with Commissioning and Sea Trials of Machinery in Ships, Part 15 with the Operation of Machinery in Ships: Steam Turbines, Boilers and Auxiliary Plant and Part 18 has already been mentioned. A 30% discount is available to members purchasing these books.

### The Library

The year saw the automation of a number of routine library administration processes, allowing a greater emphasis to be placed on information gathering. The development of a collection of TECHALERT reports selected from the MER "Public Research" page is well underway. The publication of the first issue of the "Books Supplement" to the MER was well received by members and publishers. The number of members registering to borrow books was encouraging and Members are reminded that a postal loans service is in operation.

### The Information Service

The Institute's automated retrieval system was augmented by the purchase of an Apple II Europlus microcomputer. The Apple II was chosen for its versatility and the availability of



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low cost programme suites. It is being used to develop specialised data files, which are not available from commercial database suppliers. Files undergoing development include an index of IMCO publications, a directory of marine consultants, and a cumulative index to the Institute's publications.

The Texas Instrument 743 terminal was linked to a number of new services this year. These included the BELINDIS coal database, and the TEXTLINE international news database. It is hoped to further expand the range of automated retrieval services in keeping with the growing demand for information. Copies of the "Information Services" brochure detailing these services can be supplied on request.

### Staff

In November 1980, Mr. J. Pinkney, editor of Transactions for the last decade, died after a long illness and our sympathy goes out to his wife. During the year Miss J. Nelson, who worked on transactions, resigned and was replaced by Miss S. Filcek.

Mrs. K. Jones was appointed Social Events Organiser and Ms. A. P. Wright was promoted to Conference Centre Manager following the resignation of Ms. L. Boothby. Mrs. I. Donovan retired in August after 23 years service with our good wishes for a long and happy retirement.

### AWARDS AND PRIZES

#### Silver Jubilee Medal

The third award of this medal was made in February 1981 to Lieutenant S. Trotter, R.N., the most outstanding Marine Engineer Officer in training at the Royal Naval Engineering College, Manadon.

#### The Denny Gold Medal for 1981

For a paper on "The Development of Marine Fuel Standards". R. F. Thomas, C.Eng., F.I.Mar.E.

#### The Institute's Silver Medal for 1981

For a paper on "The Choice of Working Fluids for Power Recovery for Waste Heat Streams". Dr. I. K. Smith.

#### The Stanley Gray £1,000 Award for 1981

Mr. J. Hodge, Chief Engineer of Railko Ltd. for the development of plastic stern tube bearings for ships.

#### The Herbert Ackroyd Stuart Award for 1980/81

For a paper on "Electronically Controlled Injection in Diesel Engines". R. Häfner.

#### The Percy Jackson Diesel Engine Award 1980/81

For a paper on "The Combustion in Slow Speed Diesel Engines" S. H. Henshall, C.Eng., F.I.Mar.E.

#### W. W. Marriner Prize—Extra First Class Certificate 1980

Ovijit Roy, T.Eng. (CEI)  
Pan Yui Chan, C.Eng., M.I.Mar.E.

#### W. W. Marriner Memorial Prize—Second Class Certificate 1980

Michael Anthony Fisher  
Anthony John Daly

#### Frank Roberts Award 1980

Yue-Wha Phillip Wong

#### Marine Engineer Cadet Prizes 1980

Higher National Diploma  
Southampton College of Higher Education

First Year—Andrew Michael Dean.  
Second Year—Peter Robert Davies.  
Third Year—Shaun Douglas Haywards.

#### TEC Diploma in Marine Engineering:

Best Second Year Student

James Anthony Boyle—Leith Nautical College.  
Kevin Charles Lilley—Southampton College of Higher Education.  
Adrian Prus—Glasgow College of Nautical Studies.  
Paul Dennie—Hull College of Higher Education.  
Adrian Richard Parker—South Glamorgan Institute of Higher Education.  
Richard Petrie—North Wirral College of Technology.  
Philip Anthony Mark—Riversdale College of Technology.  
A. D. Howlen—Hackney College (Poplar Centre).  
Michael John Laity—Plymouth College of Further Education.

#### Institute Grants for Education Purposes

During the year 22 supplementary grants were awarded as follows:—

#### Marine Degree Courses

Newcastle University — 7

#### Mechanical Degree Courses

City University, London — 1

Paisley College of Technology — 1

#### Extra First Class Certificate Courses

Hackney College — 6

South Shields College — 7

### GUILD OF BENEVOLENCE

During the year 78 new applications for advice or assistance were received. Decorations and improvements were made at Guild House including new carpet in the hall, staircase, landing and lounge. The high standard of service and attention continued under the general direction of Mrs. Fryer, Matron. The Committee extend their grateful thanks to all members of the Institute who included a donation of £1.50 to the Guild with their annual subscription. A change in the financial year end from 31 December to 30 September was approved.

J. McNaught (*President*)

J. Stuart Robinson (*Director and Secretary*)



# THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

## REVENUE ACCOUNT

YEAR ENDED 30 SEPTEMBER 1981

	1981		1980	
	£	£	£	£
<b>Income</b>				
From members' subscriptions, entrance fees and registration fees	500,517		449,127	
Sundry	3,311		4,162	
	<u>£503,828</u>		<u>£453,289</u>	
<b>Less: Cost of Services Provided for Members</b>				
Direct Expenditure on salaries and supplies:				
Technical Services:				
Publications (see A, page 12)	74,999		76,002	
Library and Marlib	22,799		18,346	
Sessions and Conferences	13,844		15,523	
Education and Training	7,545		10,232	
	<u>119,187</u>		<u>120,103</u>	
Educational Grants and Prizes	6,150		5,399	
Professional Services:				
Council of Engineering Institutions and Engineers Registration Board	25,152		22,331	
Divisions and Branches	27,723		39,875	
Development including Public Relations	23,391		36,778	
	<u>201,603</u>		<u>224,486</u>	
Indirect Expenditure on salaries and supplies:				
Membership and Maintenance of Register	68,868		57,937	
Council and Committees	19,453		17,627	
	<u>88,321</u>		<u>75,564</u>	
Administration:				
Employers' Staff Costs	124,662		100,325	
Overheads including Occupancy (see D, page 12)	248,998		239,814	
	<u>373,660</u>		<u>340,139</u>	
Less: Allocated to Other Income—see below	40,791		47,021	
	<u>332,869</u>		<u>293,118</u>	
	<u>£622,793</u>		<u>£593,168</u>	
<b>Excess of Expenditure over Income from Members</b>	<u>118,965</u>		<u>139,879</u>	
<b>Investment Income</b>				
Property (see B, page 12)	562,424		546,989	
Less: Interest on Mortgage and Unsecured Loan (see Balance Sheet Note 1)	97,892		153,530	
	<u>464,532</u>		<u>393,459</u>	
Dividends and Interest	34,605		29,985	
	<u>499,137</u>		<u>423,444</u>	
Surplus on Books and Technical Papers sold to Non-Members (see A, page 12)	33,493		18,007	
Net Surplus on Social Events (see C, page 12) (1980—Deficit)	1,128		(3,222)	
Adjustment arising from Foreign Exchange fluctuations—Surplus 1980—Deficit	7,975		(2,404)	
	<u>541,733</u>		<u>435,825</u>	
Less: Administration Costs—see above	40,791		47,021	
	<u>500,942</u>		<u>388,804</u>	
Less: Provision against stocks	381,977		248,925	
	<u>13,500</u>		<u>10,000</u>	
<b>Surplus for the year before appropriations</b>	<u>£368,477</u>		<u>£238,925</u>	



## THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

**REVENUE ACCOUNT—ADDITIONAL INFORMATION**

**YEAR ENDED 30 SEPTEMBER 1981**

A) Publications	1981			1980		
	Publications and Technical Papers provided free to members £	Books and Technical Papers sold to members £	Books and Technical Papers sold to non-members £	Publications and Technical Papers provided free to members £	Books and Technical Papers sold to members £	Books and Technical Papers sold to non-members £
Direct Costs on salaries and supplies	209,004	21,449	41,928	203,812	18,085	52,012
Less: Advertisement and other revenue	129,310	—	—	131,115	—	—
Sales and other revenue	—	26,144	75,421	—	14,780	70,019
Net Cost	79,694	—	—	72,697	3,305	—
Contribution	—	4,695	33,493	—	—	18,007
Charge to Revenue Account—Publications, Technical Papers and Books distributed or sold to Members	<u>£74,999</u>			<u>£76,002</u>		
Surplus to Revenue Account—Books and Technical Papers sold to Non-Members	£33,493			£18,007		
B) Property		Rental Income and Service Rents £	Conference Centre £		Rental Income and Service Rents £	Conference Centre £
Income		709,328	180,196		688,561	145,238
Less: Associated Costs						
Employers' Staff Costs		74,767	16,496		77,690	14,600
Services and Supplies		132,803	103,034		109,952	84,568
		207,570	119,530		187,642	99,168
		501,758	60,666		500,919	46,070
Surplus to Revenue Account		<u>£562,424</u>			<u>£546,989</u>	
C) Social Events		£	£		£	£
Income			51,386			51,080
Less: Associated Costs						
Employers' Staff Costs		6,316			5,290	
Services and Supplies		43,942			49,012	
			50,258			54,302
Net Surplus to Revenue Account (1980—Deficit)			<u>£1,128</u>			<u>£3,222</u>
D) Overheads including Occupancy		£	£		£	£
Costs of occupancy:						
Rates		73,772			64,429	
Insurances		7,955			579	
Depreciation, Repairs and Maintenance		24,524			27,694	
Light, Heat and Cleaning		25,492			26,553	
Bank Charges			131,743			119,255
Legal and Other Professional Charges			1,329			920
Post, Telephone and Telex			17,596			30,025
Printing and Stationery			30,044			21,367
Travel and Entertaining			16,223			18,490
Sundry Expenses			29,630			28,455
			22,433			21,302
			<u>£248,998</u>			<u>£239,814</u>

Legal and other professional charges include Audit Fees of **£9,600** (1980—£9,600)

**The total Employers' Staff Costs in the Revenue Account have been allocated as under:**

	1981	1980
	£	£
Publications .....	74,776	83,825
Administration .....	124,662	100,325
Other Direct and Indirect Expenditure for Members .....	123,836	123,278
Property .....	91,263	92,290
Social Events .....	6,316	5,290
	<u>£420,853</u>	<u>£405,008</u>

# THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

## APPROPRIATION ACCOUNT

**YEAR ENDED 30 SEPTEMBER 1981**

	Balance Sheet Notes	1981 £	£	1980 £	£
Surplus brought forward from Revenue Account			368,477		238,925
Net Loss on sale of Investment and Fixed Assets (1980—Net Gain)			616		1,626
			<u>367,861</u>		<u>240,551</u>
Donation to Guild of Benevolence		5,250		6,325	
Appropriations:					
Capital Fund—Mortgage Repayment	6	15,000		15,000	
Capital Development Fund	7	195,124		172,087	
Leasehold Redemption Fund	8	28,000		1,000	
Property Maintenance Reserve Fund	9	60,000		—	
			<u>303,374</u>		<u>194,412</u>
Unappropriated Surplus for the year			64,487		46,139
Balance on Reserve Fund at 1 October 1980			114,744		68,605
Balance on Reserve Fund at 30 September 1981			<u>£179,231</u>		<u>£114,744</u>



# THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

## BALANCE SHEET

30 SEPTEMBER 1981

	Notes	1981 £	1980 £
<b>Investments:</b>			
Leasehold Property ....	1	1,547,900	1,337,776
Quoted Securities ....	2	145,031	143,218
Cash held for Investment ....		29,760	32,785
		<u>1,722,691</u>	<u>1,513,779</u>
<b>Fixed Assets:</b>			
Freehold Property ....	3	—	18,415
Fixtures, Fittings and Equipment ....	4	41,280	48,348
		<u>41,280</u>	<u>66,763</u>
		<u>1,763,971</u>	<u>1,580,542</u>
Cash held in respect of Leasehold Redemption and Property Maintenance Reserve Funds	8 & 9	110,000	—
		<u>1,873,971</u>	<u>1,580,542</u>
Less: Net Current Liabilities ....	5	20,515	89,697
		<u>£1,853,456</u>	<u>£1,490,845</u>
<b>Financed by:</b>			
Capital Fund ....	6	632,426	617,426
Capital Development Fund ....	7	921,752	726,628
		<u>1,554,178</u>	<u>1,344,054</u>
Leasehold Redemption Fund ....	8	50,000	22,000
Property Maintenance Reserve Fund ....	9	60,000	—
Reserve Fund ....		179,231	114,744
Development Fund ....		10,047	10,047
		<u>189,278</u>	<u>124,791</u>
Awards Funds ....	10	73,296	67,628
Less: Investments and Cash held ....		<u>73,296</u>	<u>67,628</u>
		<u>£1,853,456</u>	<u>£1,490,845</u>

J. McNAUGHT, *President*

G. McNee, *Honorary Treasurer*

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

We have examined the Accounts and Notes set out on pages 11 to 16. These have been prepared under the historical cost convention and as indicated in Note 11 fully incorporate the income and expenditure of the wholly owned operating subsidiary company for the year ended 30 September 1981 and the assets and liabilities therefore at that date.

Subject to the foregoing, in our opinion the aforesaid Accounts and Notes give a true and fair view of the state of affairs of The Institute of Marine Engineers as at 30 September 1981 and of the income and expenditure for the year ended on that date.

Lee House,  
London Wall,  
London EC2Y 5AX.  
25 November, 1981

FINNIE ROSS ALLFIELDS,  
*Chartered Accountants.*



# THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

## NOTES TO THE ACCOUNTS

**YEAR ENDED 30 SEPTEMBER 1981**

### 1) Leasehold Property

76, Mark Lane, London, held on a lease expiring in 2057.

At cost of construction and additions to 30 September 1980 .....  
Adjustment in respect of provisions no longer required. (1980—Additional Expenditure) .....

**Less balance of:** Mortgage secured thereon and repayable in annual instalments of £15,000  
Unsecured Loan received from merchant bank .....

**As at 30 September 1981** .....

1981		1980	
Expendi- ture to 30.9.74	Extension and Mod- ernisation	Expendi- ture to 30.9.74	Extension and Mod- ernisation
£	£	£	£
701,148	1,443,786	701,148	1,432,003
—	9,778	—	11,783
<u>701,148</u>	<u>1,434,008</u>	<u>701,148</u>	<u>1,443,786</u>
75,000	—	90,000	—
—	512,256	—	717,158
<u>£626,148</u>	<u>£921,752</u>	<u>£611,148</u>	<u>£726,628</u>
<u>£1,547,900</u>		<u>£1,337,776</u>	

### Movement of unsecured loan

	£	£	£	£
Balance at 30 September 1980 .....		717,158		869,609
Interest and Facility Fees charged in year .....	93,688		147,914	
<b>Less: Interest paid in year</b> .....	<u>93,688</u>		<u>147,746</u>	
Facility Fees paid in year .....	—		168	
	<u>93,688</u>		<u>147,914</u>	
		<u>717,158</u>		<u>869,609</u>
<b>Less: Capital repayments during the year</b> .....		<u>204,902</u>		<u>152,451</u>
Balance at 30 September 1981 .....		<u>£512,256</u>		<u>£717,158</u>

- a) Under the revised terms of repayment of the loan to the merchant bank **£102,451** was due at 31 December, 1980 followed by twelve half yearly payments of **£51,225**. Notwithstanding this revised arrangement the Institute repaid an additional **£51,226** on 30 June 1981.
- b) No amortisation has been provided on the leasehold property other than that referred to in Note 8.
- c) In accordance with a valuation dated 11 November 1981 in the opinion of Baker Harris Saunders the capital value of the Institute's leasehold as at 30 September 1981 was not less than **£8,500,000** (1980—£8,350,000) for Balance Sheet purposes. This valuation assumes that the property will continue to be held by the Institute as an investment and to provide accommodation for the running of its day to day business.

### 2) Quoted Securities

These consisted of Gilt Edged Stocks, Unit Trusts and Equities at cost. They have been valued at 30 September 1981 at middle market prices and on this basis the market value at that date was **£44,985** above their cost (1980—£53,678 above their cost).

### 3) Freehold Property

	1981	1980
	£	£
At Cost .....	<u>18,415</u>	<u>18,415</u>
Proceeds of sale—net .....	<u>19,011</u>	
Profit on Sale of Property .....	<u>£596</u>	

### 4) Fixtures, Fittings and Equipment

	1981		1980	
	Cost	Aggregate Deprecia- tion	Cost	Aggregate Deprecia- tion
	£	£	£	£
At 30 September 1980 .....	112,596	64,248	106,281	53,531
Additions during year .....	4,046	—	6,515	—
Disposals during year .....	—	—	(200)	(60)
	<u>116,642</u>	<u>64,248</u>	<u>112,596</u>	<u>53,471</u>
Depreciation charged to Revenue Account .....	—	11,114	—	10,777
At 30 September 1981 .....	<u>£116,642</u>	<u>£75,362</u>	<u>£112,596</u>	<u>£64,248</u>
<b>Net Book Value</b> .....	<u>£41,280</u>		<u>£48,348</u>	

Depreciation has been provided on a straight line basis at rates of 15% to 25% per annum to write off these assets over the period of their estimated useful lives.



# THE INSTITUTE OF MARINE ENGINEERS—ACCOUNTS

## NOTES TO THE ACCOUNTS (continued)

YEAR ENDED 30 SEPTEMBER 1981

### 5) Net Current Liabilities

	1981		1980
	£	£	£
Stocks—at the lower of cost and net realisable value .....	52,312		63,109
Debtors and Prepayments .....	214,945		201,726
Cash—at Bank, in hand and with agents in the United Kingdom .....	40,474		28,209
—held overseas .....	25,060		7,779
	<u>332,791</u>		<u>300,823</u>
Less: Creditors .....	284,397		389,846
Subscriptions in advance .....	68,909		674
	<u>353,306</u>		<u>390,520</u>
	<u>£20,515</u>		<u>£89,697</u>

Creditors include provisions of **£963** (1980—£6,943) for costs of outside decoration of the Memorial Building and **£5,891** (1980—£31,520) for the Extension and Modernisation of Building.

The Sterling equivalent of assets held abroad has been calculated in accordance with the official rates of exchange ruling on 30 September 1981.

### 6) Capital Fund

	1981	1980
	£	£
At 30 September 1980 .....	617,426	602,426
Add: Appropriation .....	15,000	15,000
At 30 September 1981 .....	<u>£632,426</u>	<u>£617,426</u>

### 7) Capital Development Fund

	1981	1980
	£	£
At 30 September 1980 .....	726,628	554,541
Add: Appropriation .....	195,124	172,087
At 30 September 1981 .....	<u>£921,752</u>	<u>£726,628</u>

The Capital Development Fund represents the total expenditure incurred to 30 September 1981, less the outstanding loan from the merchant bank as at that date (see Note 1).

The appropriation represents the capital repayments made during the year to the merchant bank (£204,902) less the adjustment in respect of provisions no longer required (£9,778).

### 8) Leasehold Redemption Fund

	1981	1980
	£	£
At 30 September 1980 .....	22,000	21,000
Add: Appropriation .....	28,000	1,000
At 30 September 1981 .....	<u>£50,000</u>	<u>£22,000</u>

### 9) Property Maintenance Reserve Fund

	1981	1980
	£	£
At 30 September 1980 .....	—	—
Add: Appropriation .....	60,000	—
At 30 September 1981 .....	<u>£60,000</u>	<u>£ —</u>

### 10) Awards Funds

	INCOME ACCOUNTS			CAPITAL BALANCES TOTAL		
	Balances 30.9.80	Income	Expenditure	Balances 30.9.81		
	£	£	£	£	£	£
Ackroyd Stuart .....	484	108	—	592	700	1,292
W. W. Marriner .....	1,851	509	70	2,290	3,727	6,017
Denny Gold Medal .....	361	117	167	311	735	1,046
Extra First Class Certificate .....	(163)	25	440	(578)	436	(142)
Frank Roberts .....	25	26	40	11	221	232
Percy Jackson Diesel Engine .....	366	139	—	505	954	1,459
William Theodore Barker .....	3,440	669	—	4,109	3,000	7,109
Stanley W. H. Gray .....	22,837	5,792	1,000	27,629	28,654	56,283
	<u>£29,201</u>	<u>£7,385</u>	<u>£1,717</u>	<u>£34,869</u>	<u>£38,427</u>	<u>£73,296</u>

The assets representing the Awards Funds comprise Cash **£5,626** (1980—£9,952) and Quoted Securities at cost **£67,670** (1980—£57,676).

The Quoted Securities, which are Gilt Edged Stocks, have been valued at 30 September 1981 at middle market prices and on this basis their market value at that date was **£17,962** below their cost (1980—£7,972 below their cost). No reserve has been made for diminution in value of investments.

### 11) Subsidiary Companies

The Accounts include the results for the year to 30 September 1981 of the wholly owned operating subsidiary.

The subsidiary companies, which are both registered in England are:—

Marine Management (Holdings) Limited.

Marine Activities Management Limited—did not trade during the year.