

ONE HUNDRED AND THIRTEENTH ANNUAL GENERAL MEETING.

THE One Hundred and Thirteenth Annual General Meeting of the Chemical Society was held on Friday, April 2nd, 1954, in the Large Chemistry Lecture Theatre, the University, Manchester. The President took the Chair at 9.45 a.m. and called upon Dr. L. E. Sutton, Honorary Secretary, to read the notice convening the meeting.

The notice having been read, the President called upon Professor E. D. Hughes, Honorary Secretary, to present the Report of Council. Professor Hughes pointed to the continued growth of the Society during the past year but emphasised that the Society was also losing members more rapidly. This was a matter of some concern to the Council and was one of the main reasons for the proposal to adopt the reduced rate of basic subscription to be proposed later. Referring to the Society's publications, Professor Hughes remarked that more papers were now being received for publication in the *Journal* and it appeared that the reduction in size of the *Journal* of 1953 would not be repeated. As had already been announced the Bureau of Abstracts would be closed down when all the issues, including Indexes, for 1953, had been completed. This failure of *British Abstracts* had arisen entirely for financial reasons and was described fully in the Report. Professor Hughes referred briefly to the measures which had been taken to replace in some way the Abstracts and described the publication by the Society at short notice of *Current Chemical Papers*. This new publication had been favourably received by the Fellowship.

In conclusion, Professor Hughes expressed the thanks of the Society to all those who had assisted in its work during the past year. In particular he mentioned those who had acted as referees for papers submitted to the *Journal*, and contributors to the *Annual Reports* and *Quarterly Reviews*, as well as those who had served on the various committees of the Society or acted as Local Representatives. Thanks were also due to the many donors of books presented to the Library. Professor Hughes also referred to the permanent staff of the Society and thanked them for their work during the past year.

The President then referred to the illness of Sir Wallace Akers, the retiring Honorary Treasurer, and expressed the Society's appreciation of the great service he had rendered during his six years of office. That period had been one of exceptional financial difficulty, and the fact that the Society had emerged with its finances unimpaired was due in no small measure to the untiring energies of its Honorary Treasurer. Large contributions had been forthcoming to assist in the Society's work but at the same time steps had been taken to ensure that the Society should, so far as possible, become independent of outside grants.

In the absence of the Honorary Treasurer, the financial section of the Report and the Accounts were presented by Professor H. Burton, Senior Honorary Secretary. The Accounts must be considered satisfactory in view of the increased yield from Fellows' subscriptions and from the sale of publications. Expenditure on the *Journal*, owing to its smaller size, was less than in 1952 and this had enabled the Society to place certain sums to reserve. It was noted that, had it not been for payments to the Bureau of Abstracts, the Society would not have required any grants from outside sources during the year.

After discussion the President moved that the Report of Council and the Accounts be adopted by the meeting. This proposal was seconded by Dr. Sutton and was unanimously accepted.

The President then announced the following elections to vacancies on the Council :

President :

Professor W. Wardlaw.

Vice-Presidents :

Professor E. R. H. Jones. Professor R. P. Linstead. Professor H. W. Melville.

Honorary Treasurer :

Mr. M. W. Perrin.

Elected Ordinary Members of Council :

Constituency I :

Dr. E. A. Braude.
Dr. H. M. N. H. Irving.

Constituency II :

Dr. E. J. Bourne.
Professor H. D. Springall.

Constituency III :

Professor H. N. Rydon.

Constituency IV :

Dr. C. C. Addison.

Constituency V :

Professor J. M. Robertson.

Constituency VI :

Dr. V. C. Barry.

The President then referred to certain proposals, submitted by the Council, for the modification of the Bye-Laws. A major reason for the changes was the desire of the Council to introduce a form of basic subscription carrying no entitlement to publications. If this proposal was carried the necessary resolutions would be submitted to an Extraordinary General Meeting to follow the present meeting. Other changes had been made in order to bring the Bye-Laws of the Society into conformity with current practice. These reasons had been described fully in a circular letter addressed to all Fellows. One further modification proposed concerned the ownership of copyright of papers contained in the *Journal*. The Council had considered it desirable and in the interests of the Fellows that the Society should have power to acquire the copyright. This would assist those wishing to copy from the *Journal* who might under the present Bye-Laws be seriously hampered if the ownership of copyright was uncertain or if the owner was not accessible. In addition, the Society would in all probability wish to make arrangements for the re-issue by a commercial publisher of certain volumes of the *Journal*. Such an arrangement and also the issue of a micro-film edition would be greatly facilitated if the Society had power to acquire the copyright.

The President then referred to the suggestion contained in the circular letter addressed to all Fellows that it was necessary for the Society to own copyright because it had subscribed to the Royal Society's "Fair Copying Declaration." He regretted that this was misleading in so far as the Declaration was merely a statement of what, in the opinion of the signatories, represented fair copying. It might be, however, that the Society's opinion on this matter would carry more weight if in fact it was the owner of the copyright.

It had been represented to the Council that the wording of the proposed Bye-Law might appear to restrict an individual author from copying his own work. The Council certainly did not wish to hamper authors or even to appear to do so, and an amendment had been proposed which he considered would protect authors' rights. This amendment would be incorporated in the formal resolution for the adoption of the new Bye-Laws when it was put to the meeting.

There was a discussion on the new Bye-Laws and on the proposed amendment. Dr. E. Rothstein, speaking on behalf of a number of Fellows in Leeds, asked for a further explanation of several points and proposed as an additional amendment that the words "of publication" be inserted after the word "form" in the third line of Bye-Law 79 (i) (b). This further amendment was seconded and was put to the meeting. It was defeated by a large majority, greatly exceeding two-thirds of those Fellows present and voting.

After further discussion, the following amended resolution proposed by the President and seconded by Dr. Sutton was put to the meeting and was carried *nem. con.*

“ That the draft Bye-Laws submitted to the meeting, of which a print has been signed by the Chairman for the purpose of identification, be and they hereby are adopted as the Bye-Laws of the Society in place of the existing Bye-Laws. Subject to the proposed new Bye-Laws being amended by the addition at the end of Bye-Law 79 (i) (b) of the words ‘ The Council shall not refuse any reasonable request from an author to reproduce his own work elsewhere in the whole or in part.’ ”

On the motion of Dr. L. E. Sutton, seconded by Professor H. Burton, Messrs. W. B. Keen and Co., Finsbury Circus House, London, E.C.2, were appointed as Auditors for the year 1954.

The President then declared the Annual General Meeting terminated.

EXTRAORDINARY GENERAL MEETING.

The President called upon Dr. L. E. Sutton to read the notice convening the meeting and to propose the following resolution :

“ That, subject to the adoption of the draft Bye-Laws, submitted to the One Hundred and Thirteenth Annual General Meeting, as the Bye-Laws of the Society, the Annual Subscription of a Fellow of the Society shall, from January 1st, 1955, be reduced to Two Guineas.”

The resolution, having been proposed by Dr. Sutton and seconded by Professor Burton, was, after a brief discussion, put to the meeting and was carried unanimously.

On the conclusion of the meeting a vote of thanks to the President, Officers, Council, and Local Representatives of the Society was proposed by Professor E. R. H. Jones, seconded by Mr. J. D. Rose, and carried with acclamation. The proceedings then terminated and were resumed at 11 a.m. when the President delivered his Presidential Address, “ Signs of a New Pathway in Reaction Mechanism and Stereochemistry ” (*J.*, 1954, 2991).

REPORT OF COUNCIL FOR 1953.**I. PATRON.**

An Address of loyalty and congratulation was submitted, on behalf of the President, Council, and Fellows of the Society, to H.M. Queen Elizabeth II, Patron of the Society, on the occasion of her Coronation on June 2nd.

II. FELLOWSHIP.

1. *General.* Fellowship changes in 1953, and in previous years, are given in the following table :

	TABLE 1.				
	1949	1950	1951	1952	1953
Number of Fellows on January 1st	7873	8195	8353	8616	9063
<i>Additions :</i>					
Elections	675	749	700	947	790
Reinstatements	26	29	25	34	29
Miscellaneous	—	1	—	1	—
	— 701	— 779	— 725	— 982	— 819
<i>Deductions :</i>					
Deaths	60	66	62	65	58
Resignations	210	267	273	341	467
Removals	109	181	127	128	106
Miscellaneous	—	107	—	1	2
	— 379	— 621	— 462	— 535	— 633
Net increase in year	<u>322</u>	<u>158</u>	<u>263</u>	<u>447</u>	<u>186</u>

The Fellowship at December 31st (9249) is the largest in the history of the Society, and it is gratifying to record that the Fellowship has increased for thirteen consecutive years. Some concern must be expressed, however, at the increasing number of resignations reported during the year. The average Fellowship-duration of those ceasing to belong to the Society is now only 8.1 years compared with 12.3 years in 1938.

The number of Fellows participating in the Joint Subscription Scheme sponsored by the Chemical Council was 4407, a decrease of 430 during the year.

2. *Honours.* The Council has conveyed the congratulations of the Society to the following whose names appeared in the Honours Lists during 1953 :

K.B.E.

Hugh Stott Taylor (Honorary Fellow).

C.B.

Robert Spence.

C.B.E.

Donald Neil McArthur.

Reginald Bradbury Southall.

The Council has also congratulated the following to whom awards were announced during the year :

Nobel Laureate.

Professor H. A. Krebs.

Priestley Medal of The American Chemical Society.

Sir Robert Robinson.

3. *Deaths.* The Council records with deep regret the death, during the year, of three distinguished Honorary Fellows of the Society—Wilder Dwight Bancroft, Claude Silbert Hudson, and Nikolai Dimetrieivich Zelinsky. The Council also regrets to report the death of Samuel Smiles, who served the Society as Secretary (1912–20) and as Vice-President (1920–23).

III. PUBLICATIONS.

1. *Journal.* During 1953, 946 scientific communications were received and 866 published. In comparison with 1952 (1046 received, 1000 published), these figures represent decreases of 9.6 and 13.4% respectively. During 1953, 22 communications were declined and 30 were withdrawn. Table 2 shows some comparative figures.

TABLE 2.

	1938	1948	1951	1952	1953
Papers and Notes received.....	507	548	910	1046	946
Less rejected or withdrawn	11	17	71	59	52
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Papers and Notes published	496	531	839	987	894
No. of pages (Papers and Notes) ...	404	511	778	1000	866
No. of pages (total, excluding Index Volume)	1917 *	2203	3368	4901 *	4028 *
Average no. of pages per communication	2120 *	2330	3514	5056 *	4200 *
	4.75 *	4.35	4.33	4.90 *	4.65 *

* Pre-war sizes of type.

Simple comparison of total receipts during 1952 and 1953 is misleading. There was a peak in the third quarter of 1952, and a great drop in the fourth quarter of 1952; then during the last three quarters of 1953 the rate of receipt gradually increased. Consequently the *Journal* for 1954 is expected to be more comparable in size with that of 1952 (5056 pp.) than with that of 1953 (4200 pp.).

The *Journal* for 1953 contained 889 items made up as shown in Table 3, where some comparative figures are also given. Table 4 shows that the distribution of papers between the three classes varies only slightly, although the percentage of Physical Organic papers has fallen since 1949, while that of General, Physical, and Inorganic has steadily increased. The upward trend in the proportion of Notes has been maintained, although the proportion still remains fairly low.

TABLE 3.

Numbers of items in the Journal.

	1938	1948	1951	1952	1953
Papers (General, Physical, and Inorganic)	102	124	131	194	180
„ (Physical Organic)	—	16 *	100	134	93
„ (Organic)	275	326	462	556	492
Notes	27	45	85	116	101
Lectures and Addresses	9	5	3	6	6
Obituary Notices	37	17	9	21	14
Annual General Meeting	1	2	1	2	1
Editorial Nomenclature Report ...	—	—	1	1	1
Report by Symbols Committee of the Royal Society	—	—	1	—	—
I.U.P.A.C. List of Atomic Weights	1	—	1	—	1
„ Report of Commission of Nomenclature of Inorganic Chemistry	—	—	1	—	—
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	452	535	795	1030	889

* Class first introduced in the *Journal* for December 1948.

TABLE 4.
Percentage distribution in the Journal.

	1938	1948	1949	1950	1951	1952	1953
Papers (General, Physical, and Inorganic)	25.2	20.3	16.9	18.4	16.8	19.4	20.8
„ (Physical Organic)	—	3.1	14.4	13.8	12.8	13.4	10.8
„ (Organic)	74.8	63.8	60.9	58.7	59.4	55.6	56.7
Notes	6.8	8.8	7.8	9.1	10.9	11.6	11.7

Contributions from industrial laboratories and industrial research organisations published during 1953 totalled 100, including 10 published jointly with academic institutions and 1 jointly with a Government organisation; this represents 11.6% of the total. Contributions from Government sources totalled 41, including 10 jointly with academic institutions and 1 jointly with an industrial organisation. Communications from overseas published during 1953 numbered 140 (16.2%) (1951, 15.6%; 1952, 15.7%). Their proportion has, therefore, increased slightly. Of these, 4 were published jointly with British laboratories (given in parentheses in Table 5).

TABLE 5.

	1948	1951	1952	1953
Australia	13	38(1)	62(1)	50
British Colonies and Protectorates	—	4(1)	6(3)	5(1)
Canada	2	1	2(1)	2
Egypt	15	22	12	8
France	2	10	10	7
Hungary	6	1	3	7
India	3	3	3(1)	6
Irish Republic	—	5	4	5
Israel	2	7	10(2)	20
New Zealand	14	5	18	12(1)
South Africa	1	10	14(1)	7
U.S.A.	2	13(7)	8(3)	7(1)
Miscellaneous	7	2(1)	5	4(1)
	<hr/> 67	<hr/> 121(10)	<hr/> 157(12)	<hr/> 140(4)

The number of communications received during 1953 less the number rejected or withdrawn was 894; the number published during the year was 866. An analysis has shown that the normal time, to the nearest week, between receipt of communications and their publication (taken as the last day of the month) is 21—22 weeks, which is about 1 week slower than in 1952. Communications for which diagrams or figures are required take about four weeks longer to appear than those for which they are not required. The fastest time of publication during the year was 13 weeks. The fact that papers accepted exceed papers published by 28 is due partly to the rise in the rate of receipt and partly to the slower publication rate; there was slight congestion at the printers during the late summer, which has since been overcome.

2. *Annual Reports on the Progress of Chemistry for 1952 (Volume XLIX)*. These were issued in July 1953 and contained 381 pages (428 in 1952, and 490 in 1951).

3. *Quarterly Reviews*. Volume VII (1953) contained 16 articles occupying 443 pages (Volume VI, 15 articles, 398 pages).

4. *British Abstracts*. The Chemical Society has been engaged in the publication of *Abstracts* since 1841. From 1924 this responsibility was entrusted to the Bureau of Abstracts, a body set up to co-ordinate abstracting on behalf of the Chemical Society and the Society of Chemical Industry. In 1945 the Bureau was incorporated as a company limited by guarantee and not having a share capital. Later other societies interested mainly in the physiological, biochemical, or analytical aspects of chemistry became associated with the Bureau under separate agreements.

From the financial aspect the publication of *Abstracts* has never been profitable, and the Society has for many years been obliged to subsidise its *Abstracts* at the expense of other activities or to seek assistance from outside sources. During the past five years the position became steadily worse. The large increase in scientific work published throughout the world was coupled with a very considerable rise in printing costs and a decrease in the number of individuals able to afford to purchase personal copies of *Abstracts* at an economic price.

The Council recognises that the continuance of *Abstracts* in recent years was largely due to the generosity of the British chemical industry, which made it possible for the Chemical Society to make increased payments to the Bureau. The Society's contribution to the Bureau had been fixed by agreement at £5,300 per annum. In the four years 1950—53 the Chemical Society's payments have totalled £69,884. In 1952 the Councils of the Chemical Society and the Society of Chemical Industry decided with great reluctance that the two Societies could no longer carry the responsibility for the heavy expenditure of the Bureau and that the future annual payments of the two Societies must be limited to the sums guaranteed by agreement.

In this situation it clearly became necessary, if the publication of *Abstracts* was to continue, to make a new arrangement for financing the Bureau and for the continuance of publication.

Representations to H.M. Government were made through the Parliamentary and Scientific Committee, and at the request of the Lord President of the Council a committee was established by the Royal Society to enquire into the position. As a result of the recommendations of this committee a further appeal was issued to Industry in 1953, which raised £44,000. The Government also promised a contribution of £35,000. These payments made possible the continuance of *Abstracts* for 1953 and the publication of those Indexes that were in arrears. It was indicated, however, both by the Government and by Industry that contributions of this order would not be forthcoming in future. During the year, active attempts were made to arrange for the future publication of *Abstracts* on a commercial basis. Unfortunately, and after very exhaustive enquiries, this proved impracticable; so the Bureau will be dissolved on completion of its outstanding commitments.

Although *British Abstracts* have come to an end, purely for financial reasons, the Council recognises the need for an abstracting service that could be available to Fellows at a reasonable price. Every practical possibility is being investigated, and the Society has kept in touch with other bodies on this question. The Society was also represented, by an observer, at the meetings in Paris of the *ad hoc* committee on abstracting appointed by the International Union of Pure and Applied Chemistry.

5. *Current Chemical Papers.* The Council arranged for the publication, in 1954, of *Current Chemical Papers*, a classified world list of new papers in pure chemistry. This publication, whilst not replacing abstracts, will, it is hoped, give early information to chemists on work published in the world's literature.

6. *Journal Reprint Service.* The Council arranged that papers published in the *Journal* from January 1954 should be available from the Society in reprint form. Details have been circulated to all Fellows.

7. *List of Fellows.* A new edition of the *List of Fellows* (corrected to September 1952) was published during the year. Fellows may obtain copies from the General Secretary, price 2s. 6d.

IV. MEETINGS.

1. *Scientific Meetings.* Details of all meetings, including those held in London and those arranged at various centres by Local Representatives of the Society, are given in Appendix A.

2. *Anniversary Meetings.* The Anniversary Meetings were held in London on March 26th—27th.

3. *Centenary Lectures.* Professor A. Tiselius (Honorary Fellow) delivered a Centenary Lecture, entitled "Some Applications of the Separation of Large Molecules and Colloidal Particles," in London, Birmingham, and Glasgow.

V. LIBRARY.

The Report of the Joint Library Committee is given in Appendix B.

VI. OTHER ACTIVITIES.

1. *Grants for Research.* Grants from the Research Fund totalling £734 14s. 6d. were made to 30 applicants.

2. *Corday-Morgan Memorial Fund Executive.* The first report of the Executive appointed to administer, in accordance with the testator's wishes, grants made by the Society for the unification of the chemical profession within the British Empire is given in Appendix C.

3. *Corday-Morgan Medal and Prize.* The Corday-Morgan Medal and Prize for 1951 was awarded to Dr. Frederick Sanger.

4. *Royal Photographic Society.* Dr. W. H. Mills, on behalf of the Council, presented an Address at the Centenary Meeting of the Royal Photographic Society.

5. *Faraday Society.* A message of congratulation was conveyed to the Faraday Society on the occasion of its Jubilee Meeting on April 16th.

6. *Japanese Chemical Society.* Sir Robert Robinson, on behalf of the Council, presented an Address of congratulation at the Seventy-Fifth Anniversary Celebrations of the Japanese Chemical Society.

7. *Koninklijke Nederlandse Chemische Vereniging.* Professor H. Burton and the General Secretary represented the Society at the Fiftieth Anniversary Meetings of the Netherlands Chemical Society. An Address of congratulation was presented.

8. *Danish Chemical Society.* Dr. J. S. Anderson, Dr. J. Chatt, Dr. N. N. Greenwood, Dr. F. G. Mann, Dr. L. E. Orgel, Mr. H. M. Powell, and Dr. L. E. Sutton were delegates of the Society at a Symposium on Co-ordination Chemistry arranged by the Danish Chemical Society in Copenhagen on August 9th—14th.

9. *Gesellschaft Deutscher Chemiker.* Professor H. Burton, Professor E. D. Hughes, and the General Secretary attended the Annual Meetings of the German Chemical Society in Hamburg on September 14th—19th.

VII. ADMINISTRATION.

1. *Council.* At the Annual General Meeting on March 27th, the following were declared elected :

Vice-President who has not filled the Office of President	Professor R. D. Haworth.
Elected Ordinary Members of Council.....	Professor F. Bergel, Professor M. J. S. Dewar, Dr. I. J. Faulkner, Professor Brynmor Jones, Dr. A. I. Vogel.

2. *Local Representatives.* The following appointments have been made to fill vacancies among the Society's Local Representatives :

Birmingham	Dr. E. J. Bourne in place of Dr. L. L. Bircumshaw.
Cambridge	Dr. R. N. Haszeldine in place of Dr. B. Lythgoe.
Hull	Dr. W. B. Orr in place of Professor Brynmor Jones.
Liverpool	Dr. D. W. Broad in place of Mr. L. A. Haddock.
Northern Ireland	Dr. R. G. R. Bacon in place of Dr. H. Graham.
North Wales	Dr. J. E. McKail in place of Dr. W. Rogie Angus.
Nottingham	Dr. C. C. Addison in place of Dr. D. O. Jordan.
Sheffield	Mr. H. J. V. Tyrrell in place of Dr. A. H. Lamberton.
Southampton	Dr. N. B. Chapman in place of Dr. K. R. Webb.

VIII. FINANCE.

1. *Accounts.* The financial results for the year under review are much more satisfactory than could, with any confidence, have been forecast a year ago. In 1952, had it not been for grants received through the Chemical Council and the Royal Society, the Society's expenditure (excluding expenditure on *Abstracts*) would have exceeded its income by some £21,000. In 1953 the gap was bridged and, but for the need to make further large payments on account of *Abstracts*, no financial assistance from outside sources would have been required. Although this recovery in the Society's fortunes cannot yet be considered permanent, the improvement has amply justified the increase in the Fellowship subscriptions and in the prices charged to Fellows and to outside subscribers for the Society's publications. The following are notes on the more important items of Income and Expenditure.

(a) *Fellows' Subscriptions.* The increase in the basic annual subscription from £3 10s. to £4 10s., introduced at the beginning of 1953, and the increased schedule price of certain publications have together increased the Society's income from its Fellows by over £9,000 in 1953. This is the largest single contribution made towards closing the gap between expenditure and income. Despite this very favourable result, however, the Council does not consider that a permanent solution has been found. Many Fellows, for a variety of reasons, require to receive only a very limited range of publications, or none at all. The Council has, therefore, proposed that, as from January 1955, the subscription rate shall be fixed at £2 2s., and that publications, other than *Proceedings*, which will be free to all Fellows, shall be available for purchase at an extra charge by those Fellows that require them. Fellows under twenty-seven years of age, however, may continue to receive *Annual Reports* and *Quarterly Reviews* without payment. The right of existing Life Fellows to receive the *Journal*, or other publications of equivalent value, will be preserved. This new proposal is not expected to have any immediate effect on the Society's financial position, but it is hoped that the Society's Fellowship, and thus its income, will increase over a period of years through the retention of many of those Fellows who might otherwise have resigned.

(b) *Sale of Publications.* The income derived from the sale of publications to non-Fellows or to Libraries has increased by £8,865 as a result of the increase in the prices charged and a slight increase in circulation.

(c) *Grants Received to Assist Publication.* A grant of £3,500 was received through the Royal Society from the Government Scientific Grant-in-Aid for Scientific Publications, and the Council acknowledges this substantial assistance with gratitude. In addition, the Society has benefited to the extent of £16,600 by Grants received from the Chemical Council. These were made possible by the response of Industry to the Appeal issued by the Chemical Council for funds to help meet the cost of publication of original research work and the Council records its thanks to the Chemical Council and to Industry for this valuable and generous help.

These contributions have enabled the Society to continue the prompt publication of all suitable papers received. Without them, serious restrictions would have been necessary in view of the heavy commitments of the Society in respect of *Abstracts*.

(d) *Administrative Costs.* At £7,619 these are £440 higher than in 1952, but the total is not unreasonable when compared with the average cost for the preceding five years (£7,525).

(e) *Cost of the Journal.* The Society's expenditure on the *Journal* was some £8,896 lower than in 1952. This results from the decreased size (4200 text pages compared with 5056 in 1952). The basic costs, with the exception of paper, which was reduced in price, have again risen slightly during the year. Moreover, it seems probable that the reduction in total expenditure is only temporary, since the number of communications suitable for publication received during the last three months of 1953 has increased.

(f) *Abstracts.* The Society's contribution to the Bureau of Abstracts totalled £17,800. This relates largely to expenditure to be incurred in the completion of outstanding indexes not fully provided for in previous years.

An account of the events leading up to closing of the Bureau of Abstracts is given in Section III of this Report.

Comparable figures for the major items in the accounts, detailed above, are given in Table 6.

TABLE 6.

	Income.			Expenditure.		
	Annual sub- scriptions (net). £	Sale of publications. £	Outside grants. £	Administra- tion. £	Journal of the Society. £	Contributions to Bureau of Abstracts. £
1948	20,754	9,503	3,400	7,855	19,997	5,300
1949	22,629	13,778	5,233	7,492	31,963	5,300
1950	26,884	16,784	15,984	7,468	31,713	12,084
1951	26,928	22,358	33,500	7,632	36,309	14,000
1952	29,273	21,365	49,550	7,178	53,439	26,000
1953	38,801	30,231	20,100	7,619	44,542	17,800

* Includes £9500 in respect of previous years.

2. *Subscriptions under Deed of Covenant.* The Society has continued to benefit from the Income Tax recovered on the annual subscriptions of those Fellows who have entered into Deeds of Covenant with the Society in respect of their annual subscriptions. A total of £3597 has been recovered during the last three years.

3. *Library.* The Council records its thanks for a grant of £712 from the Chemical Council towards maintenance costs of the Library and to those Societies that, in return for the use of the Library by their members, have continued to contribute towards maintenance costs. The Chemical Society's contribution towards Library expenses was £3,402, of which £2,490 was for expenditure of a capital nature.

4. *Investments.* In the past it has been customary for the Society to invest available funds in Trustee Securities. During the year, after taking Counsel's opinion, it was confirmed that investments on the General Purposes Account or Special Reserve Fund need not be confined to these stocks. The Council accordingly considered it advisable that part of the Society's funds should be invested outside the very limited range of Trustee Securities and, following consultations with the Society's brokers, and on the recommendation of the Finance and General Purposes Committee, some £10,000 was re-invested in non-Trustee Securities. This resulted in an increase in investment income in 1953, and a further small improvement can be expected in the future when the new dividends are received over a full year.

In addition, Centenary Fund Investments have been increased by the purchase of £2667 19s. 5d. 4% Consolidated Stock at a cost of £2500. £100 3% Defence Bonds (3rd issue) held on Special Reserve Fund has been converted into 3½% Defence Bonds, and £150 2½% National War Bonds, 1951/53, on Staff Pensions Fund, has been repaid at par.

IX. REPRESENTATIVES OF THE SOCIETY ON OTHER BODIES.

In 1953 the Society was represented on various bodies by the following :

“ Acta Metallurgica ” :

International Journal of the Science of Metals : Dr. U. R. Evans.

Association of British Chemical Manufacturers :

Joint Technical Committee on Patents : Dr. J. T. Hewitt.

Barker Committee :

Formed to support the publication of the Barker Index of the characteristic angles of crystalline compounds : Dr. G. M. Bennett.

Bristol University Court :

Professor C. E. H. Bawn.

British National Committee for Chemistry :

Sir Eric Rideal, Professor E. D. Hughes, Professor M. Stacey.

British National Committee for Crystallography :

Professor J. M. Robertson.

British Standards Institution. Technical Committees :

C/17. Viscosity : Dr. A. E. Dunstan.

C/34. Standardisation of pH Scale : Professor H. T. S. Britton.

CHE/36. Chemicals for Electroplating : Dr. J. R. I. Hepburn.

DAC/-. Standards for Dairying Chemistry : Mr. Eric Voelker.

FCC/HCC/1. Nomenclature for Fine and Heavy Chemicals Industries : The Editor.

HCC/2. Silica Gel : Dr. B. Lambert.

LBC/-. Scientific Glassware and Related Laboratory Apparatus : Dr. G. R. Davies.

LBC/1/1. Dean and Stark and Ubbelohde Apparatus : Dr. G. R. Davies.

LBC/5. Hydrometers : Mr. R. Sutcliffe.

LBC/6. Standard Distillation Apparatus : Mr. R. Sutcliffe.

LBC/11. Microchemical Apparatus : Mr. R. Belcher, Dr. H. D. K. Drew.

LBC/11/1. Apparatus for Microchemical Combustion Methods : Dr. R. Belcher.

LBC/11/3. Accessory Apparatus connected with Gravimetric Microanalysis : Mr. R. Belcher.

LBC/16. Standardization of Glass Electrodes : Dr. D. J. G. Ives.

LBC/17. Apparatus Drawing Conventions : The Editor.

LBC/18. Laboratory Furniture and Fittings : Mr. R. Sutcliffe.

PAC/13. Laboratory Filter Papers : Mr. F. H. Burstall.

PCC/1. Nomenclature for Insecticides : Professor R. L. Wain.

RUC/8. Rubber Tubing and Bungs for Laboratory Use : Dr. L. C. Bateman.

USM/1. Units and Technical Data : The Editor.

USM/1/7. Standard Glossary of Nuclear Terms : The Editor.

USM/2. Units, Symbols, and Abbreviations : The Editor.

Bureau of Abstracts. Continuing Committee :

Sir Wallace Akers, Dr. G. M. Bennett, Dr. G. M. Dyson, Professor H. Burton.

Chemical Council :

The Treasurer, Mr. R. P. Bell, Professor C. K. Ingold, Professor E. D. Hughes.

City and Guilds of London Institute :

The President.

Faraday Society. Colloidal and Biophysics Committee :

Dr. P. Johnson.

Joint Library Committee :

Dr. L. C. Bateman, Dr. J. H. Burgoyne, Professor M. J. S. Dewar, Dr. F. Fairbrother, Dr. J. E. Garside, Dr. J. Kenyon, Professor K. Lonsdale, Dr. A. Maccoll, Professor H. N. Rydon, Dr. L. E. Sutton, Professor C. Tyler, Professor R. L. Wain, Dr. J. Walker, Professor W. Wardlaw.

Lawes Agricultural Trust. Committee of Management :

Sir John Simonsen.

Parliamentary and Scientific Committee :

The President, The General Secretary.

Regional Council for Further Education for the South-West. Chemistry and Chemical Technology Committee :

Professor W. E. Garner.

Royal Society. Joint Standing Committee for Symbols and Abbreviations :

Mr. R. P. Bell, The Editor.

Royal Society. Scientific Societies Accommodation Committee :

The President.

Society of Dyers and Colourists. Perkin Centenary Committee :

Dr. M. A. T. Rogers.

Yorkshire Council for Further Education. Advisory Committee for Chemistry in South and East Yorkshire :

Professor R. D. Haworth.

APPENDIX A.

MEETINGS HELD DURING 1953.

IN LONDON.

(Meetings were held in the Rooms of the Society at Burlington House unless otherwise stated.)

January 22nd, *Pedler Lecture*, "Discoveries among Conjugated Macrocyclic Compounds," by Professor R. P. Linstead; February 5th, *Symposium*, "Acetylene Chemistry," arranged by Professor E. R. H. Jones (contributions from the following were read and discussed—Dr. E. A. Braude, Dr. M. C. Whiting, Dr. R. N. Lacey, Mr. H. W. B. Reed, Dr. B. C. L. Weedon, Dr. R. A. Raphael, Professor E. R. H. Jones, Professor N. A. Sørensen, Dr. W. D. Celmer and Dr. I. A. Solomons, and Dr. B. Lythgoe); March 19th, *Nernst Memorial Lecture*, by Professor J. R. Partington; April 30th, *Lecture*, "The Scientific Problems of Surface Catalysis," by Professor H. S. Taylor; May 7th, *Meeting* for the reading of original papers; June 4th, *Meeting* to commemorate the present-day aspects of the work of Sir William Ramsay (President, 1907–9) (contributions from the following were read and discussed—Dr. J. S. Anderson, Professor F. A. Paneth, Dr. H. G. Jenkins, Dr. L. C. Bannister, Mr. H. J. Taylor); October 15th, at the Royal Institution, *Tilden Lecture*, "The Mechanisms of Reactions between Gases and Solids," by Dr. J. S. Anderson; November 5th, at the Imperial College of Science and Technology, *Tilden Lecture*,

"Aromatic Character in Seven-membered Ring Systems," by Dr. A. W. Johnson; November 19th, at the Institution of Civil Engineers, *Centenary Lecture*, "Some Applications of the Separation of Large Molecules and Colloidal Particles," by Professor A. Tiselius; December 3rd, *Meeting* for the reading of original papers; December 17th, *Meeting* for the reading of original papers.

OUTSIDE LONDON.

Aberdeen. At Robert Gordon's Technical College unless otherwise stated: February 11th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Selective Herbicides and the Principles of Selective Toxicity," by Professor G. E. Blackman; at the University, Old Aberdeen, March 12th, *Official Meeting and Pedler Lecture*, "Discoveries among Conjugated Macrocyclic Compounds," by Professor R. P. Linstead; joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry: March 26th, *Lecture*, "Some Recent Developments in the Field of Lipids," by Dr. J. A. Lovern; October 23rd, *Lecture*, "Structure, Stereochemistry, and Inclusion Compounds of Some Phenol Derivatives," by Professor W. Baker; November 20th, *Lecture*, "The Production, Fabrication and Properties of Titanium," by Dr. N. P. Inglis; at the University, December 17th, *Lecture*, "Some Aspects of Chemical Engineering," by Mr. H. W. Cremer.

Birmingham. Joint meetings with the University Chemical Society, at the University: January 23rd, *Lecture*, "Usnic Acid and its Derivatives," by Professor A. Robertson; March 13th, *Lecture*, "Changes occurring in the Surface of Solids during Chemical Reactions," by Professor W. E. Garner; October 23rd, *Lecture*, "Analytical Errors: Heinous and otherwise," by Dr. T. B. Smith; November 20th, *Centenary Lecture*, "Some Applications of the Separation of Large Molecules and Colloidal Particles," by Professor A. Tiselius; December 4th, *Lecture*, "Some Intermolecular Compounds," by Mr. H. M. Powell.

Bristol. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, held at the University unless otherwise stated: January 22nd, at Gloucester Technical College, *Lecture*, "Biogenesis of Caratenoids," by Dr. T. W. Goodwin; January 29th, *Lecture*, "Progress in Hydrogen-bond Chemistry," by Professor L. Hunter; February 5th, at Gloucester Technical College, *Lecture*, "The Practical Approach to Chemotherapy," by Dr. F. L. Rose; February 25th, with the Plastics Institute, *Lecture*, "Construction of the British Resin Factory at Barry," by Mr. T. W. M. Ponds; March 19th, *Lecture*, "Some New Applications of Infra-red Spectroscopy," by Dr. H. W. Thompson; May 5th, with the Institute of Fuel, *Lecture*, "Research and Development on Refractory Materials," by Dr. A. T. Green; October 1st, *Lecture*, "The Changing Pattern of Plant Design in the Basic Chemical Industries," by Mr. Stanley Robson; October 15th, *Lecture*, "Synthesis of Simple Peptides," by Professor F. E. King; November 5th, *Lecture*, "Some Aspects of the Work at Rothamsted," by Sir William Ogg; November 19th, at the Grand Hotel, Social Evening and Film Show; November 19th, *Lecture*, "Mechanism of Detergent Action," by Professor N. K. Adam; November 26th, at Gloucester Technical College, *Lecture*, "Some Advances in the Chemistry of Organic Fluorine Compounds," by Professor M. Stacey; December 3rd, with the Institute of Metals, *Lecture*, "Metallurgical Trends of Interest to the Chemical Industry," by Mr. L. Rotherham.

Cambridge. October 30th, joint meeting with the University Chemical Society, *Lecture*, "The Polymerisation of Sulphur," by Professor G. Gee, at the Chemical Laboratory, Pembroke Street.

Edinburgh. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry: January 15th, at the Heriot-Watt College, *Lecture*, "Vitamin B₁₂ and Related Factors," by Dr. E. Lester Smith; February 3rd, at the Biochemistry Lecture Theatre, Teviot Place, *Lecture*, "Bacterial Polysaccharides," by Professor M. Stacey; at the North British Station Hotel: February 19th, *Lecture*, "The Fertiliser, Phosphorus and Allied Industries," by Dr. B. Raistrick; March 19th, *Lecture*, "Radiation Chemistry," by Professor F. S. Dainton; October 15th, *Lecture*, "River Pollution," by Dr. E. A. B. Birse;

November 12th, *Lecture*, "The Mechanism of Hydrochloric Production Acid in the Stomach," by Dr. R. E. Davies; December 10th, *Lecture*, "Chemotherapy and the Organic Chemist," by Dr. F. L. Rose.

Exeter. At the Washington Singer Laboratories: February 27th, *Lecture*, "Physical Chemistry of Acetaldehyde and Some of its Reactions," by Mr. R. P. Bell; November 19th, *Lecture*, "The Synthesis of Nucleotide Co-enzymes," by Professor A. R. Todd.

Glasgow. January 16th, at the Royal Technical College, *Meeting* for the reading of original papers; February 20th, at the University, Annual General Meeting of Local Fellows followed by a *Lecture*, "Allene Chemistry," by Professor E. R. H. Jones; March 13th, at the Marlborough, Ramsay Chemical Dinner; October 23rd, joint meeting with the Andersonian Chemical Society and the Alchemists' Club, at the Royal Technical College, *Lecture*, "Fluorescence of Solutions," by Dr. E. J. Bowen; November 20th, at the University, *Lecture*, "Some Intermolecular Compounds," by Mr. H. M. Powell; November 25th, at the University, *Centenary Lecture*, "Some Applications of the Separation of Large Molecules and Colloidal Particles," by Professor A. Tiselius.

Hull. Joint meetings with the University College Scientific Society, at University College: January 29th, *Lecture*, "The Third Dimension in Chemistry," by Dr. A. F. Wells; November 26th, *Lecture*, "Aromatic Substitution," by Professor M. J. S. Dewar.

Irish Republic. January 14th, joint meeting with the Institute of Chemistry of Ireland, at University College, Dublin, *Lecture*, "The Use of Lithium Aluminium Hydride in Organic Chemistry," by Dr. Dermot Twomey; at Trinity College, Dublin, unless otherwise stated: February 25th, joint meeting with the Institute of Chemistry of Ireland, *Lecture*, "Some Aspects of the Chemistry of Butenolides," by Professor Wesley Cocker; March 13th, joint meeting with the Werner Society, *Lecture*, "Crystal and Molecular Structure—X-Ray and Electron-microscope Studies," by Professor J. M. Robertson. Joint meetings with the Royal Institute of Chemistry, the Society of Chemical Industry, and the Institute of Chemistry of Ireland, April 15th, at University College, Dublin, April 16th, at Cork, and April 18th, at University College, Galway, *Lecture*, "The Influence of Chemistry on Medical Practice," by Professor E. C. Dodds; May 29th, joint meeting with the Werner Society, *Lecture*, "The Behaviour of Hydrogen Peroxide as a Solvent," by Professor W. F. K. Wynne-Jones; October 21st, at University College, Dublin, *Lecture*, "Phosphates in Biochemical Reactions," by Dr. A. K. Mills; November 20th, joint meeting with the Werner Society, *Lecture*, "Recent Work in Terpene Chemistry," by Sir John Simonsen.

Leeds. At the University: January 19th, *Royal Institute of Chemistry Lecture*, "Some Peculiar Properties of Mineral Dusts," by Professor H. V. A. Briscoe; February 16th, *Royal Institute of Chemistry Lecture*, "Chromatography in the Study of Amino-acid Metabolism," by Dr. C. E. Dent; March 3rd, joint meeting with the University Chemical Society, *Lecture*, "The Non-Steady State in Chemical Kinetics," by Professor H. W. Melville; November 3rd, *Lecture*, "Pernitrous Acid and its Nitrating and Hydroxylating Properties," by Mr. R. Heslop; November 23rd, *Royal Institute of Chemistry Lecture*, "Some Experiences of Food Legislation during War," by Sir Harry Jephcott. Fellows were invited to all meetings of the Royal Institute of Chemistry, Leeds Area Section, as well as to those organised by other bodies.

Liverpool. At the University, joint meetings with the Royal Institute of Chemistry, Society of Chemical Industry, British Association of Chemists, and the University Chemical Society: January 22nd, *Lecture*, "Chemical Aspects of Drug Metabolism," by Professor R. T. Williams; February 26th, *Lecture*, "Recent Studies relating to Hydrocarbon Oxidation," by Professor A. R. Ubbelohde; October 22nd, *Lecture*, "Reaction Mechanism and Molecular Geometry," by Professor C. W. Shoppee; November 19th, *Tilden Lecture*, "The Mechanisms of Reactions between Gases and Solids," by Dr. J. S. Anderson.

Manchester. At the University, unless otherwise stated: January 27th, *Meeting* for the reading of original papers; February 3rd, *Official Meeting and Tilden Lecture*, "The Chemistry of Intermolecular Compounds," by Mr. H. M. Powell; March 27th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Symposium* "Corrosion Inhibitors"; April 10th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, at the College of Technology, *Lecture*, "Nature of

Toxic Action," by Dr. M. W. Goldblatt; October 22nd, at the College of Technology, *Meeting* for the reading of original papers; November 19th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Manufacture of Chemicals from Petroleum," by Dr. J. L. Edgar; December 4th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Chemistry and Pharmacological Reactions," by Mr. J. W. Trevan.

Newcastle and Durham. At King's College, Newcastle-on-Tyne, unless otherwise stated: February 13th, *Bedson Club Lecture*, "The Molecular-orbital Theory of Organic Chemistry," by Professor M. J. S. Dewar; February 27th, *Meeting* for the reading of original papers; March 13th, *Bedson Club Lecture*, "Catalytic Inorganic Halides and the Friedel-Crafts Reaction," by Dr. F. Fairbrother; May 8th, *Bedson Club Lecture*, "Allene Chemistry," by Professor E. R. H. Jones; October 23rd, *Meeting* for the reading of original papers; November 13th, *Bedson Club Lecture*, "The Third Dimension in Chemistry," by Dr. A. F. Wells; November 19th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, at the Science Buildings, Durham, *Lecture*, "Some Intermolecular Compounds," by Mr. H. M. Powell; November 27th, *Bedson Club Lecture*, "Contributions of Optical Activity to the Study of Some Chemical Reactions," by Dr. J. Kenyon. Fellows were invited to the meetings of the Bedson Club.

Northern Ireland. At Queen's University, Belfast, joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry: February 16th, *Lecture*, "The Work of the British Coal Utilisation Research Association," by Dr. D. T. A. Townend; March 6th, with the Andrews Club, *Lecture*, "The Scientific Examination of Paintings," by Dr. A. E. Werner; May 19th and 20th, Symposium on Eggs; October 13th, *Lecture*, "Tin, Tinplate, and Tin Coatings," by Mr. W. E. Hoare; October 29th, *Lecture*, "The Comparative Chemistry of Carbon and Silicon," by Professor E. D. Hughes.

North Wales. January 29th, joint meeting with the University College Chemical Society at the Edward Davies Chemical Laboratories, Aberystwyth, *Lecture*, "Reaction Mechanism and Molecular Geometry," by Professor C. W. Shoppee; at University College of North Wales, Bangor: February 12th, joint meeting with the Liverpool Section of the Society of Chemical Industry and the University College of North Wales Chemical Society, *Lecture*, "The Protein Requirements of the Ruminant Animal," by Dr. R. L. M. Syngé; March 12th, joint meeting with the Chemical Societies of the University of Liverpool and University College of North Wales, *Lecture*, "The Deoxy-sugars and their Significance as Constituents of Natural Products," by Professor M. Stacey; April 30th, joint meeting with the University College of North Wales Chemical Society, *Lecture*, "Some Properties of High-polymer Solutions," by Professor C. E. H. Bawn; November 19th, joint meeting with the University College of North Wales Chemical Society, *Lecture*, "Electron-transfer Reactions," by Professor F. S. Dainton.

Nottingham. Joint meetings with the University Chemical Society, at the University, unless otherwise stated: January 19th, joint meeting with the Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "Resonance," by Professor C. A. Coulson; January 29th, *Lecture*, "Experiments with Radioactive and Stable Isotopes," by Professor F. S. Dainton; February 19th, *Lecture*, "Certain Aspects of the Chemistry of Sesquiterpenes," by Professor G. R. Clemo; March 3rd, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "Molecular Vibrations and Chemical Problems," by Dr. H. W. Thompson; October 29th, *Lecture*, "Allene Chemistry," by Professor E. R. H. Jones; November 2nd, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "Some Problems raised by the Visualisation of Big Molecules," by Dr. R. W. G. Wyckoff; November 26th, *Official Meeting and Tilden Lecture*, "Aromatic Character in Seven-membered Ring Systems," by Dr. A. W. Johnson; November 30th, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "The Structures of Some Electron-deficient Solids," by Professor H. C. Longuet-Higgins.

St. Andrews and Dundee. January 8th, at University College, Dundee, *Lecture*, "Some Aspects of Sorption," by Professor R. M. Barrer; January 23rd, joint meeting with St.

Andrews University Chemical Society, at United College, St. Andrews, *Lecture*, "Chromatography," by Dr. R. L. M. Synge; January 30th, at United College, St. Andrews, *Official Meeting and Lecture*, "The Study of Combustion by the Method of Flash Photolysis," by Professor R. G. W. Norrish; February 13th, at United College, St. Andrews, *Lecture*, "Colouring Matters of Dragon's Blood Resin and Related Topics," by Professor A. Robertson; February 20th, at University College, Dundee, *Royal Institute of Chemistry Lecture*, "The Significance of Kékulé Structures for the Stability of Aromatic Hydrocarbons," by Dr. Eric Clar; March 2nd, at University College, Dundee, *Lecture*, "Light Scattering," by Dr. E. J. Bowen; March 20th, at University College, Dundee, *Royal Institute of Chemistry Lecture*, "The Production and Refining of Shale Oil," by Dr. G. H. Smith; April 9th, at University College, Dundee, *Lecture*, "Some Equilibria and Reactions with Sulphur," by Dr. G. Gee; April 24th, joint meeting with the University Chemical Society, at United College, St. Andrews, *Lecture*, "Metal Halide Catalysts," by Dr. F. Fairbrother; May 8th, at United College, St. Andrews, *Royal Institute of Chemistry Lecture*, "Some Developments in the Chemistry of Cortisone," by Professor F. S. Spring; October 16th, joint meeting with the University Chemical Society, at United College, St. Andrews, *Lecture*, "Chemistry at St. Andrews: a Historical Survey," by Professor J. Read; October 22nd, at University College, Dundee, *Lecture*, "Structure, Stereochemistry, and Inclusion Compounds of Some Phenol Derivatives," by Professor W. Baker; November 13th, joint meeting with the University Chemical Society, at United College, St. Andrews, *Lecture*, "The Stereochemistry of *cyclo*Hexane Derivatives," by Professor D. H. R. Barton.

Sheffield. Joint meetings with the University Chemical Society, at the University: February 5th, *Lecture*, "Nascent Hydrogen: a Re-interpretation," by Professor F. S. Dainton; February 26th, *Lecture*, "Electrode Kinetics," by Dr. J. O'M. Bockris; March 12th, *Lecture*, "The Biogenesis of Plant Products," by Sir Robert Robinson; October 29th, *Lecture*, "Structure, Stereochemistry, and Inclusion Compounds of some Phenol Derivatives," by Professor W. Baker; November 26th, with the Royal Institute of Chemistry, *Lecture*, "Infra-red Spectroscopy and Chemical Problems," by Dr. H. W. Thompson.

Southampton. At the University, joint meetings with the University Chemical Society, unless otherwise stated: January 23rd, with the Royal Institute of Chemistry, *Lecture*, "Chemical Reactions induced by Nuclear Radiations," by Professor F. S. Dainton; February 13th, *Lecture*, "The Synthesis of Sugars," by Dr. J. K. N. Jones; March 13th, with the Royal Institute of Chemistry, *Lecture*, "The Mechanism of Detergent Action," by Professor N. K. Adam; October 13th, joint meeting with the Portsmouth and District Chemical Society, at the Municipal College, Portsmouth, *Lecture*, "The Manufacture of Sulphuric Acid from Anhydrite," by Dr. J. S. Dunn; November 6th, with the Royal Institute of Chemistry, *Lecture*, "The Bacteriostatic Properties of Heterocyclic Compounds," by Professor A. Albert; November 27th, *Lecture*, "Anionotropy," by Dr. E. A. Braude.

South Wales. February 6th, joint meeting with University College of Swansea Chemical Society, at University College, Swansea, *Lecture*, "Some Recent Developments in the Investigation of Radical Reactions," by Professor H. W. Melville; March 13th, joint meeting with the University College Chemical Society and the Royal Institute of Chemistry, at University College, Swansea, *Lecture*, "Acids containing Fluorine," by Professor M. Stacey; May 14th, joint meeting with the University College of Swansea Chemical Society, at University College, Swansea, *Lecture*, "Structural Relations of Natural Products," by Sir Robert Robinson; October 26th, at University College, Cardiff, *Lecture*, "Methods of Measuring Reaction Velocities in Solution," by Mr. R. P. Bell; November 20th, joint meeting with the University College of Swansea Chemical Society and the Royal Institute of Chemistry, at University College, Swansea, *Lecture*, "The Scope and Application of X-Ray Methods in Organic Chemistry," by Professor J. M. Robertson; November 27th, at University College, Swansea, *Tilden Lecture*, "The Mechanisms of Reactions Between Gases and Solids," by Dr. J. S. Anderson.

APPENDIX B.**ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE FOR THE YEAR 1953.**

Library facilities continue to be used to capacity. The attendances by readers in the year showed a slight decrease, numbering 10,140 against 10,562 in the previous year. Books borrowed were 399 less than in 1952, and the number of pages of which photocopies were made, 2,639, showed a decrease of 1,068. During the year a Remflex Copier was installed, and 1,572 of the pages mentioned were copied by this means. The figures quoted do not include the copying of infra-red spectrograms which are sold by the Society. Telephone enquiries increased by 184, and reached a total of 2,552. There was a gratifying increase in the number of books presented. No less than 99 of a total of 362 books added were donations. The Committee warmly appreciates the courtesy of Authors, Publishers, and others who have added to the value of the Library by such gifts. The total number of volumes in the Library is now 54,915, of which 16,893 are books and 38,122 are complete volumes of periodicals. The following figures indicate the growth of the Library and the use made of it :

	Attendances.	Books borrowed.	Additions.		
			Books added.	Volumes of periodicals.	Pamphlets.
1953	10,140	8,304 (3,326 by post)	362	815	143
1952	10,562	8,703 (3,526 by post)	378	716	202
1951	10,489	9,091 (3,795 by post)	358	712	366
1950	10,415	8,294 (3,284 by post)	422	899	233

The bequest of the Ogilvie collection of books on the production and refining of sugar and the cultivation of sugar cane, although a most welcome addition to the Library, has served to stress the acute need for adequate accommodation for the Library. It is clear that the possibilities of the present building have been exhausted. The only alternative is to secure accommodation elsewhere, within easy reach of Burlington House, to allow for a minimum of ten years' growth. This matter is now receiving urgent consideration.

APPENDIX C.**FIRST REPORT OF THE CORDAY-MORGAN MEMORIAL FUND EXECUTIVE.**

Sir Gilbert Morgan, who died on February 1st, 1940, made a bequest to the Chemical Society, subject to a life interest to his widow, to be used, in part, for the establishment of a capital fund to be known as the Corday-Morgan Memorial Fund. The Testator decreed that the income arising from this fund should be applied by the Chemical Society to assist in the unification of the chemical profession within the British Empire by grants or other awards to some representative body of British Chemists.

The Council of the Chemical Society felt that the wishes of its benefactor could best be met by the appointment of an Executive on which the Chemical Society, the Royal Institute of Chemistry, and the Society of Chemical Industry (the "Three Chartered Chemical Bodies") were represented and, with the agreement of the various councils, the Corday-Morgan Memorial Fund Executive, consisting of the Presidents and immediate Past-Presidents of the Three Chartered Bodies, was formed.

In accordance with the bequest, the Council of the Chemical Society made grants of £400 to the Executive in each of the years 1951 and 1952. The Executive in its turn has decided to appoint each year, if sufficient funds are available, a Corday-Morgan Commonwealth Fellow who shall be a graduate from a Commonwealth country specified each year by the Executive. The Executive is empowered to administer grants received from other sources. The Fellowship is intended to provide an opportunity for post-doctorate (or

equivalent) study, and it is tenable at a University in any part of the Commonwealth outside the home country of the Fellow appointed. The Executive believes that in this way it can best meet the wishes of the late Sir Gilbert Morgan and can assist in promoting the free interchange of chemical knowledge and ideas between the various countries of the Commonwealth.

The first award of a Corday-Morgan Commonwealth Fellowship was made, in October 1952, to Dr. H. J. Anderson, a graduate from the University of Manitoba who had subsequently held a research fellowship at the North-western University. Dr. Anderson now holds his Corday-Morgan Commonwealth Fellowship for one year at The Dyson Perrins Laboratory, Oxford. The award for 1953 has been made to Dr. A. D. Campbell, a graduate of the University of Otago, New Zealand, who will undertake research at the University of Glasgow. The Executive has agreed that the next Fellowship to be awarded should be offered to an Australian graduate.

The constitution of the Executive and the accounts for the period ending December 31st, 1952, are reproduced below.

CONSTITUTION.

1. The Executive shall consist of the Presidents and immediate Past Presidents of respectively the Chemical Society, the Royal Institute of Chemistry, and the Society of Chemical Industry (hereafter referred to as the "Three Chartered Bodies"), provided always that if the President or immediate Past President of any of the Three Chartered Bodies shall inform the Council of that body that he is unable to serve as a member of the Executive, the Council of that body shall be at liberty to appoint some other person in his place either generally or for such period as may be specified, and during the currency of such appointment the person so appointed shall for all purposes be a member of the Executive in place of the President or Past President in whose stead he was appointed.

2. The purpose of the Executive shall be :

(i) To advise the Councils of the Three Chartered Bodies upon any matter affecting the interests of the Three Chartered Bodies which may have been referred to the Executive or which the Executive may wish to bring to the notice of one or more of the Three Chartered Bodies.

(ii) To administer such grants as may from time to time be made to it by the Council of the Chemical Society from the Corday-Morgan Memorial Fund for the purpose of assisting in the unification of the chemical profession within the Commonwealth and Empire, and to report to the Council of the Chemical Society concerning the expenditure of such grants.

(iii) To administer such other monetary grants as may from time to time be made to the Executive for the purpose of the general advancement of the science of chemistry within the Commonwealth and Empire.

3. The Executive shall appoint a Secretary who, subject to the Council of the Chemical Society raising no objection, shall be the General Secretary of the Chemical Society.

4. The Secretary shall summon such meetings as he may, from time to time, be directed to summon by the Executive, or upon receiving a request in writing from any two members of the Executive shall summon a special meeting. Not less than two weeks' notice shall be given of any such special meeting.

5. Four members of the Executive shall constitute a quorum at all meetings.

6. A banking account shall be opened in the name of the Executive, and no payments shall be made from this account unless the same be authorised by the Executive.

7. The Executive shall submit to the Councils of the Three Chartered Bodies each year, a Report of its activities for the past year, together with an audited Statement of its Accounts.

8. The expenses of the Executive shall be defrayed out of such grants as may be made to the Executive for the purpose of meeting its expenses by the Three Chartered Bodies.

CORDAY-MORGAN MEMORIAL FUND EXECUTIVE.

INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD NOVEMBER 17TH, 1951, TO
DECEMBER 31ST, 1952.

<i>Expenditure.</i>			<i>Income.</i>		
	£	s. d.		£	s. d.
To Fellowship Grant	700	0 0	By Grants from the Corday- Morgan Memorial Fund for the years 1951/52	800	0 0
„ Miscellaneous Expenses		8 0	„ Interest on Deposit	6	9 8
„ Balance being excess of In- come over Expenditure ...	106	1 8			
	<u>£806 9 8</u>			<u>£806 9 8</u>	

C. K. INGOLD,
Chairman of the Executive.

J. R. RUCK KEENE,
Secretary of the Executive.

We have examined the above Income and Expenditure Account with the Books and Vouchers of the Executive, and certify them to be in accordance therewith and, in our opinion, correct. We have also verified the Balance at the Bankers.

FINSBURY CIRCUS HOUSE,
BLOMFIELD STREET, .E.C.2.
March 11th, 1953.

W. B. KEEN AND CO.,
Chartered Accountants.

THE CHEMICAL SOCIETY

INCOME AND EXPENDITURE ACCOUNTS for the Year ended 31st December, 1953.

1952		1953		1952		1953	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
Income.				Expenditure.			
Separate Subscriptions—				Administration Expenses:			
On account of 1953 20,539 18 0				Salaries, Wages, Superannuation, etc. 5,231 1 7			
On account of 1952 and previous years 269 5 5				House Expenses, etc. 617 13 11			
Joint Subscriptions				Office Expenses and Stationery 579 0 6			
On account of 1953 16,648 17 1				Postages 284 19 9			
On account of 1952 and previous years 48 16 9				Furniture 547 18 2			
27,863 17 5				Miscellaneous 567 13 7			
Add Income Tax recovered on Sub-				Expenses of Conjoint Chemical Office ...			
scriptions under Covenant 1,292 18 0				Subscriptions 7,618 12 6			
Dividends on Investments 38,800 15 3				1,329 2 8			
Donations 870 12 0				988 15 0			
Miscellaneous Receipts 109 9 9				598 3 10			
329 15 8				518 13 4			
13,656 2 10				Publications Account 18,081 16 2			
2,453 1 8				Library Account:			
842 0 5				Capital Expenditure 2,490 0 1			
— — —				Maintenance 912 10 10			
— — —				Special Reserve Fund:			
— — —				Publications Reserve 3,000 0 0			
— — —				Building and Equipment Reserve ... 1,000 0 0			
800 0 0				Investments Reserve 1,500 0 0			
17,751 4 11				Staff Pensions Fund 2,000 0 0			
2,513 11 8				Balance, being Excess of Income over			
£30,563 9 9				Expenditure, carried to Balance Sheet			
£40,293 12 4				291 16 2			
£40,293 12 4				£40,293 12 4			

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1953.

LIBRARY.

1952				1953				1952				1953						
£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.
<i>Income.</i>				<i>Income.</i>				<i>Expenditure.</i>				<i>Expenditure.</i>						
Contributions for Books, Periodicals, Binding, Filings, and Furniture:				Contributions for Books, Periodicals, Binding, Filings, and Furniture:				Capital Expenditure:				Capital Expenditure:						
Transfer from General Purposes Account...				Transfer from General Purposes Account...				Books and Periodicals * ...				Books and Periodicals * ...						
Contributions towards maintenance through the Chemical Council:				Contributions towards maintenance through the Chemical Council:				Binding... ..				Binding... ..						
the Chemical Society (General Purposes Account) ...				the Chemical Society (General Purposes Account) ...				Furniture				Furniture						
Royal Institute of Chemistry ...				Royal Institute of Chemistry ...				Maintenance:				Maintenance:						
Society of Chemical Industry ...				Society of Chemical Industry ...				Salaries, Wages, Superannuation, etc. ...				Salaries, Wages, Superannuation, etc. ...						
Faraday Society ...				Faraday Society ...				Postages ...				Postages ...						
Society for Analytical Chemistry ...				Society for Analytical Chemistry ...				House Expenses, etc. ...				House Expenses, etc. ...						
Biochemical Society ...				Biochemical Society ...				Office Expenses and Stationery ...				Office Expenses and Stationery ...						
Chemical Council (Direct Grant) ...				Chemical Council (Direct Grant) ...				Miscellaneous ...				Miscellaneous ...						
Contributions from other sources:				Contributions from other sources:														
Association of British Chemical Manufacturers ...				Association of British Chemical Manufacturers ...														
Institute of Brewing ...				Institute of Brewing ...														
Society of Dyers and Colourists ...				Society of Dyers and Colourists ...														
Miscellaneous ...				Miscellaneous ...														
183 0 6				180 5 1				4,717 5 4				5,176 3 10						
<u>£7,170 7 0</u>				<u>£7,666 3 11</u>				<u>£7,170 7 0</u>				<u>£7,666 3 11</u>						
<u>£7,170 7 0</u>				<u>£7,666 3 11</u>														

* Other than those received in exchange.

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1953.

SPECIAL RESERVE FUND.

		1952		1953		1953	
		£	s.	d.	£	s.	d.
<i>Income.</i>							
Dividends on Investments	...	161	7	9	216	3	6
Deposit Interest	...	25	13	4	201	12	0
		<u>£187 1 1</u>		<u>£417 15 6</u>			
<i>Expenditure.</i>							
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...	187	1	1			
		<u>£187 1 1</u>		<u>£417 15 6</u>			

SPECIAL PUBLICATIONS FUND.

		1952		1953		1953	
		£	s.	d.	£	s.	d.
<i>Income.</i>							
Sales of Publications and Royalties received	...	2,950	17	2	301	13	6
Dividends on Investments	...	69	18	2	69	18	9
Deposit Interest	...	34	8	9	77	1	7
		<u>£3,044 14 1</u>		<u>£448 12 9</u>			
<i>Expenditure.</i>							
Cost of Publications	...				44	10	4
Miscellaneous	...				21	18	8
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...				2,588	5	1
		<u>£3,044 14 1</u>		<u>£448 12 9</u>			

STAFF PENSIONS FUND.

		1952		1953		1953	
		£	s.	d.	£	s.	d.
<i>Income.</i>							
Transfer from General Purposes Account and Refund of Premiums	...	800	0	0	2,049	8	10
Dividends on Investments	...	89	12	9	965	0	0
Deposit Interest	...	6	8	0	4	15	0
Balance, being Excess of Expenditure over Income, carried to Balance Sheet	...	74	14	3			
		<u>£969 15 0</u>		<u>£2,144 4 6</u>			
<i>Expenditure.</i>							
Pensions	...						
Miscellaneous	...						
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...				1,332	1	5
		<u>£969 15 0</u>		<u>£2,144 4 6</u>			

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1953.

CENTENARY FUND.

1952		1953	
£	s. d.	£	s. d.
654	0 7	825	4 7
Dividends on Investments...		...	
£654 0 7		£825 4 7	

1953		Expenditure.	
£	s. d.	£	s. d.
712	13 5	712	13 5
Expenses of Lecturers & Delegates...		...	
Miscellaneous		...	
Balance, being Excess of Income over Expenditure, carried to Balance Sheet		...	
£712 13 5		£712 13 5	

CORDAY-MORGAN MEDAL AND PRIZE FUND.

1952		1953	
£	s. d.	£	s. d.
276	19 7	283	13 2
Dividends on Investments...		...	
Deposit Interest		...	
£276 19 7		£283 13 2	

1953		Expenditure.	
£	s. d.	£	s. d.
291	16 2	291	16 2
Prize		...	
Medal		...	
Miscellaneous		...	
Balance, being Excess of Income over Expenditure, carried to Balance Sheet		...	
£291 16 2		£291 16 2	

1953		Expenditure.	
£	s. d.	£	s. d.
91	5 1	91	5 1
Prize		...	
Medal		...	
Miscellaneous		...	
Balance, being Excess of Income over Expenditure, carried to Balance Sheet		...	
£91 5 1		£91 5 1	

CORDAY-MORGAN MEMORIAL FUND.

1952		1953	
£	s. d.	£	s. d.
506	8 10	551	9 1
Dividends on Investments...		...	
£506 8 10		£551 9 1	

1953		Expenditure.	
£	s. d.	£	s. d.
400	0 0	400	0 0
Grant to the Corday-Morgan Memorial Fund Executive		...	
Memorial Expenses (Clause 12 of the Will)		...	
Miscellaneous		...	
Balance, being Excess of Income over Expenditure, carried to Balance Sheet		...	
£400 0 0		£400 0 0	

1953		Expenditure.	
£	s. d.	£	s. d.
100	16 5	100	16 5
Grant to the Corday-Morgan Memorial Fund Executive		...	
Memorial Expenses (Clause 12 of the Will)		...	
Miscellaneous		...	
Balance, being Excess of Income over Expenditure, carried to Balance Sheet		...	
£100 16 5		£100 16 5	

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1953.

FARADAY LECTURE FUND.

		1952		1953		1954	
		£	s.	d.	£	s.	d.
<i>Income.</i>							
Dividend on Investment	...	15	8	8	15	8	8
Balance, being Excess of Expenditure over Income, carried to Balance Sheet	...		15	14	9		
		<u>£15</u>	<u>8</u>	<u>8</u>	<u>£15</u>	<u>8</u>	<u>8</u>
<i>Expenditure.</i>							
Honorarium	...						
Faraday Medal	...						
Miscellaneous	...		15	5			
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...		14	13	3		
		<u>£31</u>	<u>3</u>	<u>5</u>	<u>£31</u>	<u>3</u>	<u>5</u>

ROBERT JOHN FLINTOFF TRUST.

Dividends on Investments	...	34	13	8	34	13	8
		<u>£34</u>	<u>13</u>	<u>8</u>	<u>£34</u>	<u>13</u>	<u>8</u>
Miscellaneous	...		1	14	8		
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...		32	19	0		
		<u>£34</u>	<u>13</u>	<u>8</u>	<u>£34</u>	<u>13</u>	<u>8</u>

EDWARD FRANK HARRISON MEMORIAL TRUST.

Dividends on Investments	...	46	16	10	46	16	10
		<u>£46</u>	<u>16</u>	<u>10</u>	<u>£46</u>	<u>16</u>	<u>10</u>
Miscellaneous	...		2	6	10		
Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...		44	10	0		
		<u>£46</u>	<u>16</u>	<u>10</u>	<u>£46</u>	<u>16</u>	<u>10</u>

THE CHEMICAL SOCIETY

BALANCE SHEETS, 31st December, 1953.

GENERAL PURPOSES.

1952		1953		1952		1953		
£	s. d.	£	s. d.	£	s. d.	£	s. d.	
<i>Liabilities.</i>								
Sundry Creditors:								
10,988	6 2		18,790	3 0	29,158	2 6	28,391	6 6
13,628	4 3		12,984	0 10	17,185	15 5	13,625	12 1
12,968	19 9		14,954	11 6	3,122	7 11		
—	—		9,560	0 0				
—	—		1,200	0 0				
444	1 6		400	0 0	14,991	15 1		
Excess of Assets over Liabilities as per last Balance Sheet								
24,198	12 7		27,021	9 3				
381	5 0		180	0 0				
<i>Add</i> Life Contingency Fees								
2,513	11 8		291	16 2				
27,021	9 3		27,493	5 5				
<i>Net loss on change of Investments</i>								
—	—		764	16 0				
<i>Deduct</i> transfer from Special Reserve Fund								
—	—		764	16 0				
—		27,021 9 3		27,493 5 5		27,493 5 5		
—		£65,056 0 11		£80,305 1 5		£65,056 0 11		
—		£80,305 1 5		£80,305 1 5		£80,305 1 5		

Assets.

Investments as per Schedule (cost or value when acquired)	...	...	...
Sundry Debtors	...	...	...
Stock of Paper (Final Annual Reports, Quarterly Reviews and Current Chemical Papers)	...	...	...
Cash at Bank (including Deposit) and in hand	...	...	...

BALANCE SHEETS, 31ST DECEMBER, 1953.

PUBLICATIONS FUND.

1952		1953		1952		1953	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
10,978	19 7	10,978	19 7	10,978	19 7	10,978	19 7
£10,987	10 7	£10,987	1 7	£10,987	10 7	£10,987	1 7
<i>Liabilities.</i>				<i>Assets.</i>			
Sundry Creditors	...	...	...	Sundry Debtors	...	...	...
Excess of Assets over Liabilities as per last Balance Sheet	...	...	...	Investments as per Schedule (Cost or Value when acquired)	...	...	...

SPECIAL RESERVE FUND.

1952		1953		1952		1953	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
2,527	4 10	2,714	5 11	13	3 11	5,512	10 1
187	1 1	417	15 6	7,816	9 5	7,816	9 5
£18,734	4 2	£18,734	19 8	10,904	10 10	11,324	0 2
<i>Liabilities.</i>				<i>Assets.</i>			
Sundry Creditors	...	...	...	Sundry Debtors	...	...	...
Publication Reserve	...	...	...	Investments as per Schedule (Cost or Value when acquired)	...	...	...
As per last Balance Sheet	...	...	...	Cash at Bank and on Deposit in London Trustee Savings Bank	...	...	...
Add Transfer from General Purposes Account	...	...	...	
Library Reserve:							
As per last Balance Sheet	...	...	...	
Building and Equipment Reserve:							
As per last Balance Sheet	...	...	...	
Add Transfer from General Purposes Account	...	...	...	
Investments Reserve:							
As per last Balance Sheet	...	...	...	
Deduct Transfer to General Purposes Account—net loss on Change of Investments	...	...	...	
Add Transfer from General Purposes Account	...	...	...	
General Purposes Reserve:							
Amount brought forward	...	...	...	
Add Premium on Conversion of Stock	...	...	...	
Excess of Income over Expenditure for year	...	...	...	

BALANCE SHEETS, 31ST DECEMBER, 1953.

CORDAY-MORGAN MEDAL AND PRIZE FUND.

1952		1953		1952		1953	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
<i>Liabilities.</i>							
Sundry Creditors	10 6	80 19 2	73 16 1	Sundry Debtors	65 3 8	65 3 8	
Capital Account:				Investments as per Schedule (cost or value when acquired)	6,858 3 2	6,858 3 2	
As per last Balance Sheet	5,887 10 9	5,885 9 8	5,885 9 8	Cash at Bank (including Deposit)	474 19 5	642 1 11	
Add Balance on Bonus Issue of Imperial Tobacco Co. (G.B. & I.) Ltd. Ordinary Stock	10 6	—	—				
Deduct Loss on Repayment of Investment	2 11 7	5,885 9 8	5,885 9 8				
Income Account:							
As per last Balance Sheet	1,381 15 4	1,507 13 10	1,507 13 10				
Add Income Tax recovered	43 15 1	—	—				
Excess of Income over Expenditure for year	82 3 5	1,507 13 10	1,507 13 10				
	£7,406 18 8	£7,406 18 8	£7,406 18 8				£7,565 7 9

CORDAY-MORGAN MEMORIAL FUND.

1952		1953		1952		1953	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
<i>Liabilities.</i>							
Sundry Creditors	30 10 2	31 1 5	120 10 0	Sundry Debtors	170 1 1	170 1 1	
Capital Account:				Investments as per Schedule (cost or value when acquired)	12,232 1 5	12,232 1 5	
As per last Balance Sheet	10,090 2 8	10,090 2 8	10,090 2 8	Cash at Bank	445 16 5	499 9 5	
Add Balance on Bonus Issue of Barclays Bank Ltd., "B" Ordinary Stock	—	1 16 5	1 16 5				
Income Account:							
As per last Balance Sheet	2,512 19 4	2,677 15 0	2,677 15 0				
Add Income Tax recovered	88 17 0	—	—				
Excess of Income over Expenditure for year	75 18 8	2,677 15 0	2,778 11 5				
	£12,798 7 10	£12,798 7 10	£12,901 11 11				£12,901 11 11

SCHEDULE OF INVESTMENTS.

CORDAY-MORGAN MEMORIAL FUND.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1953.	
	£	s. d.	£	s. d.
£1,530 2s. 5d. 3½% Conversion Loan, 1961, or after ...	1,426	4 2	1,315	18 1
£1,975 16s. 11d. 3½% War Stock, 1952, or after ...	1,860	1 10	1,672	16 8
£277 1s. 10d. 3% British Electricity Guaranteed Stock, 1968/73 ...	427	0 0	427	0 0
£1,069 10s. 11d. 3% British Gas Guaranteed Stock, 1960/95 ...	1,480	17 0	968	9 6
£317 12s. 6d. 3% London County Consolidated Stock, 1962/67 ...	894	5 7	201	6 1
£1,035 0s. 7d. 3% Redemption Stock, 1966/96 ...	928	7 6	878	15 6
£137 10s. 0d. 4½% Kenya Government Stock, 1961/71 ...	148	16 11	137	10 0
£300 3% New Zealand Government Stock, 1952/55 ...	298	10 0	300	0 0
£1,000 4% South Staffordshire Waterworks Red. Preference Stock, 1971 ...	1,046	10 6	925	0 0
£300 4½% Hull Corporation Stock, 1952/72 ...	303	15 0	300	0 0
£412 10s. 0d. 3% City of Plymouth Stock, 1954 ...	405	5 7	416	12 6
108 Barclays Bank, Ltd., "B" Ordinary £1 Stock Units ...	237	3 0	245	14 0
206 Barclays Watford Brewery, Ltd., Ordinary £1 Shares ...	684	19 0	824	0 0
206 H. & G. Simmonds, Ltd., Ordinary £1 Stock Units ...	824	0 0	515	0 0
160 Imperial Tobacco (G.B. & I.) Ltd., Ordinary £1 Shares ...	506	5 0	460	0 0
108 Thomas Tilling & Co., Ltd., Ordinary £1 Stock Units ...	107	6 6	175	10 0
£340 Alliance Trust, Ltd., 4½% Debenture Stock, 1956 ...	344	5 0	324	14 0
69 London & Lancashire Insurance Co., Ltd., Ordinary £1 Stock Units ...	448	10 0	504	11 3
CS Phoenix Assurance Co., Ltd., Ordinary £1 Stock Units ...	1,088	0 0	1,351	10 0
	£12,232	1 5	£11,885	7 7

FARADAY LECTURE FUND.

£441 1s. 11d. 3½% Conversion Loan, 1961, or after ...	£439	4 0	£379	6 10
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ROBERT JOHN FLINTOFF TRUST.

£523 2s. 2d. 3½% Conversion Loan, 1961, or after ...	500	0 0	449	17 5
£545 19s. 4d. 3% British Transport Guaranteed Stock, 1978/88 ...	500	0 0	461	6 10
	£1,000	0 0	£911	4 3

EDWARD FRANK HARRISON MEMORIAL TRUST.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1953.	
	£	s. d.	£	s. d.
£61 15s. 8d. 3½% Conversion Loan, 1961, or after ...	50	1 5	53	2 8
£1,469 10s. 6d. 3% British Transport Guaranteed Stock, 1978/88 ...	1,061	6 6	1,268	12 11
	£1,101	7 11	£1,311	15 7

RESEARCH FUND.				
£4,177 16s. 1d. 3½% Conversion Loan, 1961, or after ...	3,653	16 8	3,592	18 3
£500 3% Defence Bonds, 4th issue ...	500	0 0	500	0 0
£1,835 3½% Funding Loan, 1956/61 ...	1,856	0 0	1,798	6 0
£1,500 3% Savings Bonds, 1955/65 ...	1,515	0 0	1,462	10 0
£4,000 3% Savings Bonds, 1960/70 ...	4,060	0 0	3,660	0 0
£3,755 2s. 1d. 3% British Transport Guaranteed Stock, 1978/88 ...	3,567	19 5	3,173	1 3
£4,719 8s. 3d. 3% British Electricity Guaranteed Stock, 1968/73 ...	3,794	1 2	3,328	17 5
£4,000 3% Commonwealth of Australia Registered Stock, 1964/66 ...	4,015	0 0	3,680	0 0
£1,116 7s. 0d. 3% New Zealand Stock, 1973/77 ...	1,080	7 4	965	12 10
	£23,923	4 7	£22,161	5 9

SPECIAL LECTURES FUND

£1,669 17s. 3d. 3% British Transport Guaranteed Stock, 1978/88 ...	£1,615	5 0	£1,411	0 8
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TILDEN LECTURE FUND.

£419 4s. 10d. 3% Funding Loan, 1959/69 ...	386	12 10	389	17 11
£681 19s. 1d. 3% British Transport Guaranteed Stock, 1978/88 ...	625	2 0	576	5 0
186 National Provincial Bank Shares £5 each, £1 paid "B" ...	678	18 0	734	14 0
£220 3% Metropolitan Water Board (Kent Water Works) Deb. Stock	188	2 0	162	16 0
	£1,878	14 10	£1,863	12 11

W. A. AKERS, Treasurer.

We have examined the above Balance Sheets and accompanying Accounts with the Books and Vouchers of the Society, and certify them to be in accordance therewith and, in our opinion, correct. We have also verified the Balances at the Bankers and Investments.

W. B. KEEN & Co.
Chartered Accountants.

FINSBURY CIRCUS HOUSE,
BLOMFIELD STREET, E.C.2
25th MARCH, 1954.