# ONE HUNDRED AND FOURTEENTH ANNUAL GENERAL MEETING.

THE One Hundred and Fourteenth Annual General Meeting of the Chemical Society was held in Burlington House at 10.30 a.m. on Friday, April 1st, 1955, the President, Professor W. Wardlaw, being in the Chair. After the notice convening the meeting had been read by Professor E. D. Hughes, Honorary Secretary, the President called upon Professor H. Burton, Honorary Secretary, to present the Report of Council for the year ended December 31st, 1954.

Professor Burton commented on the new subscription arrangements, introduced in 1955, and the closing of the Joint Subscription Scheme at the end of 1954. It was not possible at the present time to report fully on the effect of these changes upon the Fellowship of the Society.

The Society's Journal had increased substantially in size and the increased rate of receipt of new papers had continued. The present indications were that the receipts of new papers in 1955 would exceed those in 1952, the highest ever recorded in one year by the Society. The Society's new publication, Current Chemical Papers, had been well received and had become established in its first year. Full details of the scope and coverage of this publication were given in the Report. Professor Burton also referred briefly to the other activities of the Society mentioned in the Report. He expressed the thanks of the Society to all those who had assisted the Society in many ways, especially to those who had acted as referees to papers submitted for publication in the Journal. In conclusion, Professor Burton paid a tribute to the work of the Society's permanent staff during the past year.

The Accounts for 1954 were presented by the Honorary Treasurer. The balance of income over expenditure was satisfactory but somewhat precarious, since a small increase in the size of the Journal or in printers' charges could easily change the surplus into a substantial deficit. The ending of the Society's liability towards the Bureau of Abstracts had reduced the need for working capital and had enabled the Society to increase its investments on the General Purposes Fund and also on the Special Reserve Fund. At the same time, the proportion of investments outside the limited range of trustee securities had been increased. This policy should increase the investment income available to the Society and provide some measure of insurance against the continuing fall in the value of money.

He hoped that the new subscription arrangements which came into force on January 1st, 1955, would enable the Council to present the Society's Accounts in a more readily comprehensible manner. In particular it should be possible to show more clearly the profit or loss on each of the Society's publications. For 1954, however, he could report that Annual Reports and Quarterly Reviews both earned a satisfactory profit, the Journal was produced at a loss, and the new publication, Current Chemical Papers, had been selfsupporting.

After discussion, the President moved the adoption of the Report of Council and the This motion was seconded by Dr. L. E. Sutton, Honorary Secretary, and was carried unanimously.

The President then announced that the following had been elected to fill vacancies on the Council:

> Honorary Secretary: Professor F. Bergel.

Vice-Presidents who have not filled the Office of President: Professor M. Stacev. Sir Alexander Todd.

# Elected Ordinary Members of Council:

Constituency I:

Constituency II:

Dr. D. W. Adamson.

Dr. F. H. Pollard.

Dr. A. W. Johnson.

Dr. W. Wild.

Dr. G. T. Young.

Constituency V:

Dr. G. R. Barker.

Constituency III:

Professor F. Bell.

Dr. A. Hickling.

It was reported that, to fill the vacancy among the Ordinary Members of Council for Constituency I, caused by the appointment of Professor F. Bergel as Honorary Secretary, Council had, in accordance with Bye-Law 42, nominated Dr. A. Maccoll to serve for one year.

On the motion of the Honorary Treasurer and seconded by Dr. L. E. Sutton, Messrs. W. B. Keen and Co., Finsbury Circus House, London, E.C.2, were re-appointed as the Society's Auditors for 1955.

A vote of thanks to the President, Officers, Council, and Local Representatives, proposed by Sir Alexander Todd, who referred particularly to the services which the retiring Honorary Secretary, Professor H. Burton, had rendered to the Society, was carried with acclamation.

After an interval the meeting was resumed at 11.30 a.m. and the President presented the Corday-Morgan Medal and Prize for 1953 to Dr. J. W. Cornforth.

Professor W. Wardlaw then delivered his Presidential Address, "A Problem in Structural Chemistry." At the conclusion of the Address a vote of thanks, proposed by Professor C. K. Ingold, was carried with acclamation.

# REPORT OF COUNCIL FOR 1954.

#### I. FELLOWSHIP.

1. Honorary Fellowship. The following were elected as Honorary Fellows of the Society on May 6th, 1954:

Jens Anton Christiansen. Vincent du Vigneaud.

2. General. On December 31st, 1954 the number of Fellows of the Society totalled 9123. Fellowship changes during 1954 and previous years are given in the following Table:

	Table	1.		
N. J. C.D.H Ter	1951	1952	1953	1954
Number of Fellows on January 1st	8353	8616	9063	9249
Additions:				
Elections	700 25 — — 725	947 34 1 — 982	790 29 — — 819	670 26 — — 696
Deductions:				
Deaths Resignations Removals Miscellaneous	62 273 127 — — 462	65 341 128 1 — 535	58 467 106 2 —— 633	71 583 167 1 — 822
Net change in year	$+\overline{\overset{263}{\overset{263}{\overset{263}{\overset{263}{\overset{263}{\overset{263}{\overset{2}}{\overset{2}{\overset{2}}{\overset{2}{\overset{1}}{\overset{2}{\overset{2}}{\overset{2}{\overset{2}}{\overset{2}{\overset{2}{\overset{2}}{\overset{2}{\overset{2}}}}{\overset{2}{\overset{2}{\overset{2}}}{\overset{2}{\overset{1}}}}{\overset{1}}}}{\overset{1}}}}{\overset{1}}}{\overset{1}}}{\overset{1}}}{\overset{1}}}}{\overset{1}}}}}}}}$	$+\frac{\overline{447}}{\overline{447}}$	$+\frac{186}{1}$	$-\overline{126}$

Numbers participating in Joint Subscription Scheme:

	Year	
1949		4615
1950		4797
1951		4823
1952		4837
1953		4407
1954		4185

- 3. Joint Subscription Scheme. As Fellows will be aware the Chemical Council have issued the following statement:
  - $^{\prime\prime}$  The Chemical Council announces the cessation of the Joint Subscription Scheme at the end of 1954.
  - "It will be remembered that the scheme was instituted to afford those who were members at least of both the Chemical Society and the Society of Chemical Industry the opportunity of paying one subscription only which was somewhat less than the sum of the separate subscriptions to the several societies to which they belonged. It also gave a choice of publications which, though less than the full range offered by the societies, none the less satisfied the needs of many who were members of societies participating in the scheme.
  - "However, a subscriber who required publications in excess by more than £1 of the basic entitlement under the scheme derived no benefit and, moreover, all benefits have been much lessened by the rise in costs of publications during the last few years.

"From January 1st, 1955, the subscription structures of the Chemical Society and the Society of Chemical Industry, membership of both of which was essential for participating in the scheme, each become radically different, the Chemical Society having decided to alter its subscription to a basic one of two guineas without entitlement to any publications other than its *Proceedings*. The continued operation of the scheme is thus rendered impracticable.

"It will therefore be necessary for members who have been joint subscribers to pay their subscriptions in 1955 individually to the various societies to which they belong, and separate subscription renewal forms will be issued by each society."

It may be added that the closing of the Conjoint Chemical Office will, in future years, result in a significant saving of administrative costs for the Chemical Society.

4. Congratulations. The congratulations of the Society were conveyed to the following whose names appeared in the lists of Birthday and New Year Honours:

C.H. John Christie.

K.B.E. Lord Trent of Nottingham.

Knight Bachelor.
Alexander Robertus Todd.

C.B.E.
Harold Davies.
James Brierley Firth.
Walter Idris Jones.
Ernest Thomas Osborne.

The Council has also congratulated Professor Linus Carl Pauling (Honorary Fellow) on the award of the Nobel Prize for Chemistry, and also the following who received awards announced by the Royal Society:

Royal Medal.
Professor H. A. Krebs.

Davy Medal.
Professor J. W. Cook.

5. Deaths. The names of those Fellows whom the Society has lost by death have been announced in the *Proceedings*. By the passing on November 1st, 1954, of Sir Wallace Akers, the Council lost a friend and colleague who was greatly beloved by all those with whom he came into contact, and who, during his six years as Treasurer, rendered conspicuous service to the Society by his handling of its financial affairs.

The Council also report with deep regret the death, as a result of an accident, of John Theodore Hewitt (C. 1903—5, 1908—11, Vice-President 1922—25).

Obituary notices have been arranged.

## II. PUBLICATIONS.

1. Journal. During 1954, 1019 scientific communications were received and 961 published. In comparison with 1953 (946 received, 866 published), these figures represent increases of 7 and 11% respectively. During 1954, 19 communications were declined and 30 were withdrawn. Table 2 shows some comparative figures.

TABLE 2.

Papers and Notes received	1938 507 11	1952 1046 59	$1953 \\ 946 \\ 52$	1 <b>954</b> 1019 49
Papers and Notes published	496 404 1917	987 1000 4901	894 866 4028	970 961 4552
No. of pages (total, excluding Index Volume)	2120 4·75	$5056 \\ 4.90$	$\substack{4200\\4.65}$	4712 4·73

The number of communications received in recent years is shown in Table 3. From these figures it appears possible for the first time to assume that the post-war expansion has ceased and that the annual size of the Journal is becoming stabilised at about its present level of 900-1000 papers a year.

TABLE 3. Numbers of Communications Received for Publication.

Year	1938	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
Nos	507	<b>242</b>	347	<b>453</b>	523	548	739	<b>874</b>	910	1046	946	1019

The Journal for 1954 contained 995 items made up as shown in Tables 4 and 5 where some comparative figures are also given.

TABLE 4. Numbers of Items in the Journal.

	,	•				
	1938	1948	1951	1952	1953	1954
Papers (General, Physical, and In-						
organic)	102	124	131	194	180	135
,, (Physical Organic)		16 *	100	134	93	125
(Organic)	275	326	462	556	492	581
Notes	27	45	85	116	101	120
Lectures and Addresses	9	5	3	6	6	7
Obituary Notices	37	17	9	21	14	22
Annual General Meeting	i	2	ĭ	25	î	ĩ
Extraordinary General Meeting	1	2	•			î
Bye-laws of the Chemical Society						1
			,	,	-,	†
Editorial Nomenclature Report			1	1	1	1
Report by Symbols Committee of						
the Royal Society			Ť			
I.U.P.A.C. List of Atomic Wts.	1		1		1	1
" Report of Commission						
of Nomenclature of						
Inorganic Chemistry	_	_	1	_		
	452	535	795	1030	889	995
	102	000		1000		500

TABLE 5. Percentage Distribution in the Journal.

		1948	1949	1950	1951	1952	1953	1954
Papers	(General, Physical, and							
,,	`Inorganic)	20.3	16.9	18.4	16.8	19.4	20.8	14.0
,,	(Physical Organic) *	$3 \cdot 1$	14.4	13.8	12.8	13.4	10.8	13.0
,,	(Organic)	63.8	60.9	58.7	$59 \cdot 4$	$55 \cdot 6$	56.7	60.5
Notes		8.8	7.8	$9 \cdot 1$	10.9	11.6	11.7	12.5

<sup>•</sup> Class first introduced December 1948.

Contributions from industrial laboratories and industrial research organisations published during 1954 totalled 126, including 13 published jointly with academic institutions and 3 jointly with Government organisations; this represents 13·1% of the total. Contributions from Government sources totalled 47, including 6 jointly with academic institutions and 3 jointly with industrial organisations. Communications from overseas published during 1954 numbered 194 (20·2%) (1952, 15·7%; 1953, 16·2%). The proportions of contributions from overseas and from non-academic sources thus continued their previous increases. Table 6 gives details of the contributions from overseas, those published jointly with British laboratories being shown in parentheses.

	Tabli	E 6.			
	1948	1951	1952	1953	1954
Australia	13	38(1)	62(1)	50	62(2)
British Colonies and Protectorates		<b>4</b> (1)	<b>6(3</b> )	5(1)	9(2)
Canada	2	1`´	<b>2</b> (1)	2	6(1)
Egypt	15	22	12`´	8	16
France	2	10	10	7	8(2)
Hungary	6	1	3	7	0
India and Pakistan	3	3	3(1)	6	13
Irish Republic		5	4	5	5
Israel	2	7	10(2)	20	15
Italy					9
New Zealand	14	5	18	12(1)	14(1)
South Africa	1	10	14(1)	7	8(1)
U.S.A	2	13(7)	8(3)	7(1)	24(3)
Miscellaneous	7	<b>2</b> (1)	5	<b>4</b> ( <b>1</b> )	5(1)
	67	121(10)	157(12)	140(4)	194(13)

The number of communications received during 1954 less the number rejected or withdrawn was 970; the number published during the year was 961. An analysis has shown that the normal time, to the nearest week, between receipt of communications and their publication (taken as the first day of the following month) is 22 weeks.

- 2. Annual Reports on the Progress of Chemistry for 1953 (Volume L). These were issued in July 1954 and contained 378 pages (381 in 1953, and 428 in 1952, but this comparison is not quite valid, since a new format with more text per page was adopted in the Reports for the current year). To celebrate the half-century a foreword was written by Sir Cyril Hinshelwood.
- 3. Quarterly Reviews. Volume VIII (1954) contained 17 articles occupying 450 pages (Volume VII, 16 articles, 443 pages). A Cumulative Index of Authors and a short Cumulative Index of Subjects was, for the first time, included at the end of the volume.
- 4. Current Chemical Papers. This new publication bears the sub-title "A classified world list of new papers in pure chemistry."

Each issue of every journal received in the Society's Library is scanned immediately on receipt, and the titles of all the papers adjudged to contain original work in pure chemistry, together with those of outstanding reviews, are extracted for the forthcoming issue of Current Chemical Papers. This is distributed on the Wednesday nearest to the middle of each month, and the papers listed in that issue were received in the Society's Library during the preceding calendar month.

Thus any paper listed may at once be consulted in the Society's Library; and the Society's photocopying service is available to Fellows of the Society and to members of other Bodies entitled to use the Library.

During 1954 the papers were classified in *Current Chemical Papers* under sixteen sections, and within each section were arranged by principal subjects. When the paper was of primary interest in more than one section, entries were replicated. As a result of the year's experience, the number of sections has been raised to twenty for 1955.

Each entry states the title of the paper (in English), expanded when necessary to

indicate the subject matter, followed by the authors' names and the full journal reference. When the language is not that to be expected from the title of the journal, the language is also given; for Swiss, Dutch, and international journals the language is named if it is other than English, German, or French. For papers in languages other than English, German, or French, any summary in one of those three languages is also mentioned.

A list of the journals covered was included with the April 1954 issue, and a supplementary list with the July 1954 issue. A complete list (containing further additions) is included in the January 1955 issue, where also are given the abbreviations used (these abbreviations differ in some cases from those used by the Society up to 1954, and the new styles will be used also in the Society's other publications).

It is believed that Current Chemical Papers, which brings its information more promptly than is possible for an abstract journal, is of value to research workers; but it is intended to supplement rather than to replace abstracts, and no index is issued.

Starting in January 1955, an edition on air-mail paper and also an edition printed only on one side of the paper are available.

Table 7 gives some statistics for Current Chemical Papers for the year 1954.

TABLE 7.
Current Chemical Papers, 1954.

		Average per
	Totals.	issue.
Titles of papers listed	19,531	1628
Issues of journals yielding titles	2,006	167
Journals yielding titles	325	129
Pages (of C.C.P.)	633	53
Issues of journals not yielding titles		137
Total number of journals scanned	<b>437</b>	

The journals, totalling 437 in December 1954, are believed to include almost all which contain original work in pure chemistry, though additions are continually under investigation. However, only ten Russian journals are received in the Library at present; although these ten cover the great bulk of Russian chemistry, it is hoped that this number will be increased shortly. Coverage of the German literature was not complete at the beginning of the year, but it is believed that by the end of 1954 very little pure chemistry from Germany was being missed.

U.S. translations were included for the older issues of Russian journals not previously cited in *Current Chemical Papers*; when the U.S. translation was received of a Russian journal already included in *Current Chemical Papers*, its receipt was recorded in *Current Chemical Papers*, together with a back-reference to the issue containing the titles from the original Russian.

The figures in Tables 8 and 9, abstracted from the records of Current Chemical Papers, may have wider interest. Table 8 gives the numbers of papers, and percentages, classified according to the country in which the journals were published. The Russian figure is swollen by inclusion in it of a backlog of work from a supplement to Zhurnal obschei Khimii received in 1954, but this is offset by the incomplete coverage referred to above. The Japanese figures are swollen by duplicate publication in Japanese and English or German. Further, Table 8 does not give a completely accurate picture of the countries of origin of the work; for instance, 20% of the papers in the Society's Journal in 1954 contained work done wholly or partly overseas, including 11.25% in other countries of the Commonwealth; the latter figure alone, representing 112 papers, materially increases that in Table 8 of 311 papers; similarly, papers in the Society's Journal alone from Israel (15) are nearly double the figure (8) for that country in Table 8. Nor, of course, is the mere number of papers a true indication of their volume, and far less of their value. Nevertheless, in spite of these reservations, some *prima facie* value is doubtless attached to the figures in Table 8; they show at least which countries carry the onus of publication, and give a rough indication of their relative contributions to pure chemistry.

Table 8.

Papers in C.C.P., 1954, classified according to the country in which the original journal was published.

F	Nos.	%.
U.S.A. <sup>1</sup>	6,104	32.54
U.K	2,625	13.94
Germany 2	1,889	10.02
U.S.S.R.'3	1,760	9.35
Japan 4	1,653	8.78
France	1,113	5.91
Netherlands	509	2.70
Scandinavia	494	$2 \cdot 62$
India	443	$2 \cdot 35$
Italy	393	2.09
Czechoslovakia 5	<b>328</b>	1.74
British Commonwealth (other than the U.K. and India)	311	1.65
Switzerland	297	1.58
Spain and Portugal	257	1.37
Hungary	174	0.93
Poland	166	0.89
Jugoslavia	94	0.50
Austria	81	0.43
Belgium	45	0.24
Latin America	50	0.27
Turkey	12	0.06
Israel	8	0.04
	18,806	100.00

Notes: (1) U.S.A. does not include U.S. translations of Russian journals. (2) Germany, slightly too low (correct figure probably nearer 11%), owing to incomplete coverage early in the year. (3) U.S.S.R., too low, owing to incomplete coverage. (4) Japan, much too high (correct figure nearer 6—7%), owing to duplicate publication in Japanese and English or German. (5) Much too high (correct figure probably nearer 1.0%), owing to duplication between Chem. Listy (in Czech) and Coll. Czech Chem. Comm. (in English, German, or French).

Table 9 gives the approximate percentages of the languages in which papers contained in Current Chemical Papers were written.

TABLE 9.

Language used in papers included in C.C.P., 1954—Approximate Percentages.

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English	59.5
German	13.2
Russian	$9 \cdot 4$
French	$7 \cdot 1$
Tapanese	4.4
Ĭtalian	$2 \cdot 1$
Spanish and Portuguese	1.6
Czech	
Hungarian	
Polish	
Others	0.8
	100.0
	100.0

5. Special Publication No. 1. A new range of publications, called "Special Publications," has been sanctioned, to include collations of data, reports of symposia, or other chemical material which, in the opinion of Council, merit publication by the Society but do not find their place in any of the Society's other publications. The first of the series, The Kinetics and Mechanism of Inorganic Reactions in Solution: A Survey of Recent Work, was published on November 2nd, 1954. It is a report of a symposium held in the Society's rooms on February 4th, 1954, and organised by Dr. L. E. Sutton and Dr. J. Chatt. Dr. K. W. Sykes was Specialist Editor for this report, which occupied 84 pages, similar in size to those of Quarterly Reviews.

#### III. MEETINGS.

- 1. Scientific Meetings. Details of Scientific Meetings held in London and those arranged at various centres by Local Representatives of the Society are given in Appendix A. The meetings in London included a Conversazione held at the Senate House on May 7th.
- 2. Anniversary Meetings. The Anniversary Meetings were held in Manchester on March 31st to April 2nd.
- 3. Centenary Lectures. Dr. R. H. Manske delivered a Centenary Lecture, entitled "The Story of the isoQuinoline Alkaloids," in London, Edinburgh, Liverpool, Newcastle, and St. Andrews.

# IV. LIBRARY.

1. Report of the Joint Library Committee. This is reproduced as Appendix B.

2. Appointment of Librarian. The Council received with great regret the resignation of Mr. A. E. Cummins on grounds of ill health from the appointment of Librarian. To mark the services he has rendered to the Society and to all who have used the Library the Council has arranged for a presentation to be made to Mr. Cummins.

To fill the vacancy the Council has appointed Mr. R. G. Griffin, formerly Librarian at the Brewing Industry Research Foundation, as Librarian.

# V. OTHER ACTIVITIES.

- 1. Grants for Research. Grants from the Research Fund totalling £744 10s. were made to thirty-two applicants.
- 2. Longstaff Medal. The Longstaff Medal for 1954 was awarded to Sir John Lennard-Jones.
  - 3. Flintoff Prize. The first award of the Flintoff Prize was made to Professor M. Calvin.
- 4. Corday-Morgan Medal and Prize. The Corday-Morgan Medal and Prize for 1952 was awarded to Dr. J. Baddiley.
- 5. Harrison Memorial Prize. The Harrison Memorial Prize for 1953 was awarded to Dr. R. J. Gillespie.
- 6. Corday-Morgan Memorial Fund Executive. The Corday-Morgan Memorial Fund Executive have reported that the Corday-Morgan Commonwealth Fellowship for 1954—55 has been awarded to Dr. L. E. Smythe, University of Tasmania.
- 7. Royal Horticultural Society. Sir John Simonsen represented the Society at the 150th Anniversary Meetings on July 27th and presented an Address.

# VI. ADMINISTRATION.

1. Council. At the Annual General Meeting on April 2nd, the following were declared elected:

Professor W. Wardlaw.
Professor E. R. H. Jones, Professor R. P. Linstead, Professor H. W. Melville.
Mr. M. W. Perrin.
Dr. C. C. Addison, Dr. V. C. Barry, Dr. E. J.
Bourne, Dr. E. A. Braude, Dr. H. M. N. H.
Irving, Professor J. M. Robertson, Professor H. N. Rydon, Professor H. D. Springall.

2. Local Representatives. The following have been elected to fill vacancies among the Society's Local Representatives: Di-----De I C Talle de alors (De E I De ser

Birmingnam	Dr. J. C. Tatlow in place of Dr. E. J. Bourne.
Bristol	Dr. P. Woodward in place of Dr. F. H. Pollard.
Glasgow	Dr. D. S. Payne in place of Dr. F. D. Gunstone.
Hull	Dr. G. W. Gray in place of Dr. W. B. Orr.
Irish Republic	Dr. D. O'Tuama in place of Dr. V. C. Barry.
Leeds	Dr. E. Rothstein in place of Dr. P. A. Briscoe.
Oxford	Mr. L. A. K. Staveley in place of Dr. H. M. N. H. Irving.
St. Andrews and Dundee	Dr. C. Horrex in place of Dr. H. T. Openshaw.

#### VII. FINANCE.

1. Accounts. The Accounts for the year under review reflect the continuing improvement in the financial position of the Society, and it is gratifying to report that this is the first time for many years that the Society has been able to show a surplus in its accounts without the assistance of outside support. In part, of course, this is due to the cessation of payments to the Bureau of Abstracts which were balanced by outside support, but it can also be attributed to the increased selling price of the Society's publications. Notwithstanding the relatively satisfactory position at the end of 1954, it would be well to record that the Society's expenditure is governed by the size of its Journal, and that a relatively small increase in the number of pages could easily turn a small surplus into a substantial deficit.

It is a matter of satisfaction that the Society's new publication, Current Chemical Papers, has been self-supporting in 1954. This publication fulfils some of the functions of British Chemical Abstracts "A".

Changes in the major items of income and expenditure over the past seven years are given in Table 10.

			IABLE IU	•		
	Income.			Expenditure.		
	Annual sub- scriptions	Sale of	Outside	Administra-	Journal of the	Contributions
	(net).	publications.	grants.	tion.	Society.	to Bureau of Abstracts.
	£	£	£	£	£	£
1948	20,745	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
1954	39,111	32,926	Ńil	7,788	46,535	Nil
		T 1 1 10 FO				

- \* Includes £9500 in respect of previous years.
- 2. Library. The thanks of the Council have been accorded to the Chemical Council for a grant of £821 11s. 10d. towards the maintenance costs of the Library and also to those Societies who have continued to contribute on a membership basis in return for the use of the Library by their members.
- 3. Investments. Council has authorised the investment of part of the balances held on the General Purposes Fund and Special Reserve Fund Accounts which were no longer required as working capital. The apportionment of the Society's investments between the different categories of trustee and non-trustee investments has also been reviewed, and various changes have been authorised. The net result of these and of small changes on the other funds is given in the Schedule of Investments appended to this Report. The additional investments should considerably increase the investment income in future years.
- 4. A. G. Perkin Bequest. The bequest made to the Society under the Will of the late Professor A. G. Perkin has become payable. It amounts to £4305 19s. 5d., one-fifth of the residuary estate, and the Society is directed to invest the capital and to apply the income to the general purposes of the Society. The testator expressed the wish that the income should, so far as it could conveniently be done, be applied for the purpose of reducing the expense incurred in the publication of the Journal.

# VIII. REPRESENTATIVES OF THE SOCIETY ON OTHER BODIES.

In 1954 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 Committe on Patents: Dr. J. T. Hewitt.

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#### 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. Standardization of pH Scale: Professor H. T. S. Britton.

CHE/36. Chemicals and Chemical Plant for Electroplating: Dr. J. R. I.

Hepburn.

DAC/-. Dairying Industry Standards Committee: Mr. Eric Voelker.

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

HCC/2. Desiccants: Dr. B. Lambert.

LBC/-. Scientific Glassware and Related Laboratory Apparatus, Industry

Standards Committee: 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: Dr. 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:

Dr. R. Belcher.

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

LBC/16/2. Drafting Work on pH Meters: Dr. D. J. G. Ives.

LBC/17. Apparatus Drawing Conventions: The Editor. LBC/18. Laboratory Furniture and Fittings: Mr. R. Sutcliffe.

LGE/19. Colour Terminology: Dr. F. M. Hamer.

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

PAC/13/1. Laboratory Filter Paper (Drafting): Mr. F. H. Burstall. PCC/1. Nomenclature for Pest Control Products: The Editor.

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

USM/1. Co-ordination of Definitions, Units and Technical Date: The Editor.

Glossary of Terms used in Nuclear Sciencies: The Editor.

USM/2. Abbreviations and Symbols: The Editor.

USM/2/2. Abbreviations and Letter Symbols (Chemical Engineering and Applied Chemistry): The Editor.

# Bureau of Abstracts. Continuing Committee:

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

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

Professor R. D. Haworth.

# APPENDIX A.

# MEETINGS HELD DURING 1954.

#### IN LONDON.

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

January 21st, Meeting for the reading of original papers; February 4th, Symposium, "Kinetics and Mechanism of Inorganic Reactions in Solution. A Survey of Recent Work," arranged by Dr. L. E. Sutton and Dr. J. Chatt (contributions from the following were read and discussed: Dr. A. W. Adamson, Dr. J. H. Baxendale, Professor F. S. Dainton, Dr. R. Hurst, Professor C. K. Ingold, Dr. H. M. N. H. Irving, Dr. K. W. Sykes, and Dr. R. G. Wilkins); February 18th, Meeting for the reading of original papers; March 25th, Liversidge Lecture, "Organometallic Compounds containing Fluorocarbon Radicals," by Professor H. J. Emeléus; May 6th, Centenary Lecture, "The Story of the isoQuinoline Alkaloids," by Dr. R. H. Manske; May 7th, Reception and Conversazione, at The Senate House, University of London, W.C.1. (by kind permission of the University authorities); June 3rd, Hudson Memorial Lecture, by Professor E. L. Hirst; October 14th, Meeting for the reading of original papers; November 4th, at the Imperial College of Science and Technology, Lecture, "On Open and Closed Sequences in Reaction Kinetics." by Professor J. A. Christiansen (Honorary Fellow); November 18th, at the Imperial College of Science

and Technology, Tilden Lecture, "Molecular Rearrangements," by Professor M. J. S. Dewar; December 2nd, Meeting for the reading of original papers; December 16th, Hugo Müller Lecture, "Some Newer Aspects of the Organic Chemistry of Nitrogen," by Professor G. R. Clemo.

#### OUTSIDE LONDON

Aberdeen. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, at Robert Gordon's Technical College: January 21st, Lecture, "New Outlooks in Electrochemistry," by Professor W. F. K. Wynne-Jones; February 18th, Lecture, "The Scientific Examination of Paintings," by Dr. A. E. Werner; March 5th, Lecture, "Recent Advances in Carotenoid Chemistry," by Dr. T. W. Goodwin; April 1st, Lecture, "Some Aspects of the Newer Techniques in Analytical Chemistry," by Dr. J. R. Nicholls; October 21st, Lecture, "Some Aspects of the Chemistry of Amino-sugars," by Professor M. Stacey; December 10th, Lecture, "Terylene," by Mr. J. R. Whinfield.

Birmingham. Joint meetings with the University Chemical Society, at the University: January 22nd, Lecture, "Aromatic Substitution," by Professor M. J. S. Dewar; March 12th, Lecture, "Friction and Lubrication," by Dr. D. Tabor; October 22nd, Lecture, "Some Recent Advances in the Stereochemistry of Polycyclic Hydroaromatic Compounds," by Dr. J. Walker; November 19th, Lecture, "The Structure and Properties of Olefin Complexes," by Dr. J. Chatt; December 3rd, Lecture, "Some Aspects of the Organic Chemistry of Phosphorus," by Professor H. N. Rydon.

Bristol. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, at the University, unless otherwise stated: January 14th, Lecture, "Cacao Diseases," by Mr. R. V. Wadsworth; January 21st, Lecture, "Some New Methods in Analytical Chemistry," by Dr. R. Belcher; February 4th, Lecture, "The Radiochemical Centre at Amersham," by Dr. W. P. Grove; February 17th, at the Technical College, Gloucester, Lecture, "The Use of Radiochemical Methods in Analysis," by Mr. A. Smales, March 4th, also joint with the Institute of Fuel, Lecture, "National Fuel Resources and their Utilisation," by Dr. A. Parker; March 18th, Lecture, "Patent Specifications regarded as Chemical Literature," by Dr. W. A. Sylvester; October 7th, Lecture, "Sulphur and Sulphuric Acid from Petroleum," by Mr. F. E. Hixon; October 13th, also joint with the Plastics Institute, at the Technical College, Gloucester, Lecture, "Some Newer Plastics and their Uses," by Dr. G. Darnton; October 28th, Lecture, "Some Recent Advances in Fluorine Chemistry," by Professor H. J. Emeléus; November 4th, Lecture, "Melting and Crystal Structure," by Professor A. R. Ubbelohde; November 11th, at the Technical College, Gloucester, Lecture, "Plant Growth Substances—Some Recent Developments," by Professor R. L. Wain; November 18th, Social Evening; December 2nd, also joint with the Institute of Metals and the Chemical Engineering Group of the Society of Chemical Industry, Lecture, "The Thermochemistry of Alloys," by Dr. A. R. Harding.

Cambridge. Joint meetings with the University Chemical Society, at the Chemical Laboratory, Pembroke Street; January 29th, Lecture, "The Chemical Society, Present and Future," by Dr. R. S. Cahn; February 5th, Lecture, "Reactions in Liquid Dinitrogen Tetroxide," by Dr. C. C. Addison; March 5th, Lecture, "Azaporphyrins," by Professor R. P. Linstead; October 29th, Lecture, "Gas-Liquid Chromatography," by Dr. A. J. P. Martin; November 5th, Lecture, "Some Mould Colouring Matters," by Professor A. Robertson; December 3rd, Lecture, "The Polymerisation of Vinyl Ethers," by Professor D. D. Elev.

Edinburgh. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, held at the North British Station Hotel, unless otherwise stated: January 14th, Lecture, "The Stereochemistry of cycloHexane Derivatives," by Professor D. H. R. Barton; February 2nd, also joint with the University Chemical Society, at the Biochemistry Lecture Theatre, Teviot Place, Lecture, "New Kinds of Big Molecules," by Professor H. W. Melville; February 18th, Lecture, "Recent Progress in the Study of Metallic Corrosion," by Dr. W. H. J. Vernon; March 18th, Meeting for the reading of original papers; April 27th, in the Medical Building, Teviot Place, Official Meeting and

Centenary Lecture, "The Story of the isoQuinoline Alkaloids," by Dr. R. H. Manske; October 14th, Lecture, "Chemical Research at Harwell," by Dr. R. Spence; November 11th, Visit to the Research Laboratories of the University Chemistry Department; December 9th, Lecture, "Recent Researches in Crystallography," by Professor Kathleen Lonsdale.

Exeter. At the Washington Singer Laboratories, unless otherwise stated: February 12th, joint meeting with the Royal Institute of Chemistry, Lecture, "The Chemical Effects of Nuclear Transformations," by Dr. A. G. Maddock; March 5th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, at the Technical College, Plymouth, Lecture, "Rubber," by Dr. C. M. Blow; March 9th, Tilden Lecture, "Aromatic Character in Seven-membered Ring Systems," by Dr. A. W. Johnson; November 26th, Lecture, "Some Applications of Electron Diffraction to Problems in Inorganic Chemistry," by Dr. L. E. Sutton; December 17th, Lecture, "There and Back again; Some Aspects of the Problem of Hysteresis," by Professor D. H. Everett.

Glasgow. January 22nd, at the Royal Technical College, Lecture, "The Investigation of Natural Products derived from Wood," by Professor F. E. King; February 19th, at the University, Annual General Meeting of local Fellows followed by a Meeting for the reading of original papers; October 22nd, joint meeting with the Alchemists' Club and the Andersonian Chemical Society, at the University, Lecture, "Some Recent Advances in Carbohydrate Chemistry," by Professor M. Stacey; November 19th, at the Royal Technical College, Lecture, "The Chemical Nature of Some Metal Alkyls," by Professor G. E. Coates.

Hull. At the University: January 21st, joint meeting with the Royal Institute of Chemistry, Lecture, "Proteins and Plastics," by Professor J. C. Speakman; February 18th, joint meeting with the University College Scientific Society, Lecture, "Allene Chemistry," by Professor E. R. H. Jones; October 21st, Lecture, "The Work of the British Rubber Producers' Research Association," by Dr. L. C. Bateman; December 9th, joint meeting with the Royal Institute of Chemistry, Lecture, "Chemotherapy and Essential Trace Elements," by Professor A. Albert.

Irish Republic. January 27th, at Trinity College, Dublin, Lecture, "Studies in the Chemistry of Flavones," by Professor T. S. Wheeler; March 23rd, March 24th, and March 26th, joint meetings with the Institute of Chemistry of Ireland, the Royal Institute of Chemistry and the Society of Chemical Industry, held at Cork, University College, Dublin, and University College, Galway, respectively, Lecture, "Some Aspects of Oligo and Polysaccharide Synthesis," by Dr. E. J. Bourne; April 7th, joint meeting with the Institute of Chemistry of Ireland, the Royal Institute of Chemistry, and the Society of Chemical Industry, at University College, Dublin, Lecture, "The Steric Course of Asymmetric Synthesis," by Professor Dr. V. Prelog; May 7th, joint meeting with the Werner Society, at Trinity College, Dublin, Lecture, "Past, Present, and Future in Theoretical Chemistry," by Professor C. A. Coulson; December 8th, at University College, Dublin, Lecture, "Paul Ehrlich, 1854—1915," by Dr. J. G. Belton.

Leeds. At the University: January 18th, Royal Institute of Chemistry Lecture, "The Naturally Occurring Polyacetylenes," by Professor B. Lythgoe; February 15th, Royal Institute of Chemistry Lecture, "Corrosion Theory in Practice," by Dr. T. P. Hoar; March 9th, joint meeting with the University Chemical Society, Lecture, "The Stereochemistry of cycloHexane Derivatives," by Professor D. H. R. Barton; March 15th, Royal Institute of Chemistry Lecture, "Chemistry, Biochemistry, and Isotopic Tracer Technique," by Dr. G. J. Popjack; October 26th, joint meeting with the University Chemical Society, Royal Institute of Chemistry Lecture, "Polyester Fibres and Terylene," by Dr. R. Hill; November 2nd, Lecture, "The Mechanism of Some Electron-transfer Reactions," by Professor C. E. H. Bawn; November 22nd, Royal Institute of Chemistry Lecture, "The Lotoflavin Problem; the Study of a Toxic Natural Product," by Professor T. S. Wheeler; December 13th, joint meeting with Bradford Chemical Society, at Bradford, Royal Institute of Chemistry Lecture, "Configuration and Properties of Polymer Molecules in Dilute Solution," by Professor P. J. Flory. 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. Joint meetings with the University Chemical Society, the Royal Institute of Chemistry, the Society of Chemical Industry, and the British Association of Chemists,

at the University: January 21st, Lecture, "Fluorescence," by Dr. E. J. Bowen; March 25th, Lecture, "The Biochemistry of Adrenocortical Hormones," by Professor G. F. Marrian; April 23rd, Centenary Lecture, "The Story of the isoQuinoline Alkaloids," by Dr. R. H. Manske; October 28th, Lecture, "Chemisorption and Catalysis," by Dr. F. C. Tompkins; December 2nd, Lecture, "Macrozamin and the Aliphatic Compounds," by Professor B. Lythgoe.

Manchester. At the University: January 28th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, Lecture, "Polymerisation and its Reversal," by Professor F. S. Dainton; February 25th, Lecture, "Some Problems in the Chemistry of Polypeptides," by Professor H. N. Rydon; March 31st, joint meeting with the Royal Institute of Chemistry, the Society of Chemical Industry, and the Institute of Petroleum Symposium, "Dynamic Stereochemistry" (contributions from the following were read and discussed: Professor K. Alder, Professor D. H. R. Barton, Professor E. D. Hughes, Dr. P. B. de la Mare, Professor Dr. V. Prelog, and Professor S. Winstein); March 31st to April 2nd, Anniversary Meetings; October 1st, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, Lecture, "Some Aspects of Research on Plant Growth-regulating Substances," by Professor R. L. Wain; November 11th, Meeting for the reading of original papers; December 2nd, joint meeting with the Institute of Physics, Lecture, "Configuration and Properties of Polymer Molecules in Dilute Solution," by Professor P. J. Flory.

Newcastle and Durham. At King's College, Newcastle-on-Tyne: January 15th, Bedson Club Lecture, "Biochemistry and Parasitism," by Professor E. Baldwin; February 26th, Bedson Club Lecture, "Adhesion and Surface Properties of Solids," by Dr. F. P. Bowden; April 30th, Centenary Lecture, "The Story of the isoQuinoline Alkaloids," by Dr. R. H. Manske. Joint Meetings with the Durham Colleges Chemical Society at the University, Durham: October 11th, Lecture, "Recent Developments in Radiation Chemistry," by Dr. N. Miller; October 25th, Lecture, "Chemical Microscopy," by Dr. N. H. Hartshorne. At King's College, Newcastle-on-Tyne: October 29th Bedson Club Lecture, "Some Physicochemical Studies on  $\pi$ -Electron Compounds," by Professor A. R. Ubbelohde; November 12th, Bedson Club Lecture, "The Comparative Organic Chemistry of Nitrogen, Phosphorus and Arsenic," by Dr. F. G. Mann. At the University, Durham: November 24th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "The Molecular Structure of Benzene, Some Unsolved Problems," by Professor E. G. Cox; November 29th, joint meeting with the Durham Colleges Chemical Society, Lecture, "Some Aspects of the Chemistry of Amino-sugars," by Professor M. Stacey; at King's College, Newcastle-on-Tyne, December 3rd, Meeting for the reading of original papers.

Northern Ireland. At Queen's University, Belfast: February 17th, joint meeting with the Society of Chemical Industry, Lecture, "Krilium Soil Conditioner," by Dr. A. J. Lloyd; March 5th, joint meeting with the Royal Institute of Chemistry, Lecture, "Chemical Engineering and Industrial Productivity," by Professor D. M. Newitt; April 5th, Lecture, "The Steric Course of Asymmetric Synthesis," by Professor Dr. V. Prelog; April 22nd, Meeting for the reading of original papers; May 7th, Lecture, "Oxidation in Aqueous Solution," by Dr. J. W. Baxendale; joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry: September 6th, Lecture, "Spot Test Methods of Analysis," by Professor P. W. West; October 14th, Lecture, "The Production and Properties of Titanium and Titanium Alloys," by Dr. N. P. Inglis; November 1st, Lecture, "The

Polymerisation of Sulphur," by Professor G. Gee.

North Wales. Joint meetings with the University College of North Wales, Chemical Society, at the University College of North Wales, Bangor: March 18th, Lecture, "Some Problems in the Chemistry of Polypeptides," by Professor H. N. Rydon; May 6th, Lecture, "Atoms and Molecules in Cages," by Mr. H. M. Powell; October 21st, Lecture, "Electronic Mechanisms of Oxidation," by Dr. W. A. Waters.

Nottingham. Joint meetings with the University Chemical Society, at the University, unless otherwise stated: January 25th, joint meeting with Leicester University College Chemical Society, at University College, Lecture, "Some Recent Progress in Natural-product

Chemistry," by Professor D. H. R. Barton; January 28th, Lecture, "Structures and Configurations," by Professor E. E. Turner; February 9th, Lecture, "Recent Advances in the X-Ray Study of Complex Molecules," by Professor J. M. Robertson; February 25th, Lecture, "The Modern Theory of Aromatic Substitution," by Professor H. C. Longuet-Higgins; October 14th, Lecture, "Direct Hydroxylation of Organic Compounds," by Professor W. Bradley; October 18th, joint meeting with Leicester University College Chemical Society, at the University College, Lecture, "The Stereochemistry of Catalytic Hydrogenation," by Professor R. P. Linstead; November 25th, Lecture, "Mould Colouring Matters," by Professor A. Robertson.

St. Andrews and Dundee. January 15th, at the United College, St. Andrews, Royal Institute of Chemistry Lecture, "Recent Advances in Inorganic Chromatography," by Dr. F. H. Pollard; February 5th, joint meeting with the St. Andrews University Chemical Society, at the United College, Lecture, "Atoms and Molecules in Cages," by Mr. H. M. Powell; February 11th, at University College, Dundee, Lecture, "The Structure of Flames," by Dr. J. W. Linnett; February 19th, joint meeting with the St. Andrews University Chemical Society, at the United College, Lecture, "Some Naturally Occurring Polyacetylenes," by Professor B. Lythgoe; February 19th, at University College, Dundee, Royal Institute of Chemistry Lecture, "The Sterols—Their Chemistry and Metabolism," by Dr. R. P. Cook; February 25th, at University College, Dundee, Chemistry Department Lecture, "Steel," by Sir Charles Goodeve; February 26th, joint meeting with St. Andrews University Chemical Society, at United College, Lecture, "The Structure and Properties of Synthetic Polypeptides," by Dr. C. H. Bamford; March 4th, at University College, Dundee, Society of Chemical Industry Lecture, "Recent Developments in Carotenoid Biochemistry," by Dr. T. W. Goodwin; March 19th, at University College, Dundee, Royal Institute of Chemistry Lecture, "Technical Education," by Professor H. B. Nisbet; April 16th, at University College, Dundee, Royal Institute of Chemistry Lecture, "Change of Scale of Chemical Reaction," by Dr. S. J. Green; April 29th, at the United College, St. Andrews, Centenary Lecture, "The Story of the isoQuinoline Alkaloids," by Dr. R. H. Manske: May 6th, at University College, Dundee, Lecture, "The Relation between Theory and Experiment in Physical Chemistry," by Professor E. A. Guggenheim; November 5th, joint meeting with the St. Andrews University Chemical Society, at United College, Lecture, "The Physical Chemical Nature of Muscle Elasticity," by Professor A. V. Hill; November 19th, joint meeting with the St. Andrews University Chemical Society, at United College, "Chemicals from Petroleum," by Dr. A. McLean.

Sheffield. At the University, January 29th, joint meeting with the Sheffield University Chemical Society, Lecture, "Electron Diffraction in Gases applied to Inorganic Chemistry," by Dr. L. E. Sutton; February 11th, joint meeting with the Sheffield University Chemical Society, Lecture, "Modern Fluorine Chemistry," by Dr. R. N. Haszeldine; March 4th, Official Meeting and Lecture, "Organic Reactions of Nitrous Acid," by Professor C. K. Ingold; October 21st, joint meeting with the Sheffield University Chemical Society, Lecture, "The Polymerisation of Sulphur," by Dr. G. Gee; November 18th, joint meeting with the Sheffield University Chemical Society and the Royal Institute of Chemistry, Lecture, "The Regulation of Plant Growth with Chemicals," by Professor R. L. Wain.

Southampton. At the University: February 12th, joint meeting with the University Chemical Society and the Royal Institute of Chemistry, Lecture, "Photochemical and Spectroscopic Methods of Studying Fast Reactions," by Professor R. G. W. Norrish. Joint meetings with the University Chemical Society: February 26th, Lecture, "The Chemical Nature of Some Metal Alkyls," by Professor G. E. Coates; May 7th, Lecture, "The Stereochemistry of cycloHexane Derivatives," by Professor D. H. R. Barton; October 29th, joint meeting with the University Chemical Society and the Royal Institute of Chemistry, Lecture, "Fluorocarbon Chemistry," by Dr. R. N. Haszeldine; November 26th, Tilden Lecture, "Molecular Rearrangements," by Professor M. J. S. Dewar.

South Wales. January 15th, joint meeting with the University College of Swansea Chemical Society, at University College, Swansea, Lecture, "Some Recent Developments in Theoretical Organic Chemistry," by Professor M. J. S. Dewar; January 25th, at University College, Cardiff, Lecture, "Radiation Chemistry," by Professor F. S. Dainton; February

15th, at University College, Cardiff, Lecture, "Recent Work on Organic Inclusion Compounds and their Uses," by Professor W. Baker; April 26th, joint meeting with the University College of Swansea Chemical Society and the Royal Institute of Chemistry, at the University College, Swansea, Lecture, "Some Reactions of Free Radicals," by Professor W. A. Noyes, jun.; October 18th, at University College, Cardiff, Lecture, "Some Applications of Electron Diffraction to Problems in Inorganic Chemistry," by Dr. L. E. Sutton; October 29th, joint meeting with the University College of Swansea Chemical Society, at University College, Swansea, Lecture, "Shapes of Molecules," by Dr. J. W. Linnett; November 12th, joint meeting with the University College of Swansea Chemical Society and the Royal Institute of Chemistry, at University College, Swansea, Lecture, "Reactions of Some Organic Cations," by Professor H. Burton; November 22nd, at University College, Cardiff, Lecture, "The Chemistry of Allenic Systems," by Professor E. R. H. Jones.

## APPENDIX B.

# ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE FOR THE YEAR 1954.

In March the Librarian, Mr. A. E. Cummins, was taken seriously ill, and this led to his resignation in September. The vacancy so caused has now been filled by Mr. R. G. Griffin, F.L.A., formerly Librarian of the Brewing Industry Research Foundation.

A report on the Library was prepared by an independent consultant, Mr. W. J. Bishop. As a result of this report, substantial improvements in Library accommodation are at present under way.

Readers have made very great use of the photocopying service during the past twelve months. The number of book pages copied during 1954 was 5673, as against 2639 the previous year. In addition to this, several hundred Infra-red Spectra Sheets were copied, and sections of the staff were also supplied with a great deal of photocopied material. There is some evidence to show that the considerably greater use of the photocopying service is related to the publication of *Current Chemical Papers* and to the fall in the number of readers attending the Library.

# Analysis

			Additions.		
		Books		Volumes of	
	Attendances.	borrowed.	Books.	periodicals.	Pamphlets.
1954	9,370	7706 (3000 by post)	410	886	69
1953	10,140	8304 (3326 by post)	362	815	143

A number of gifts have been made to the Library during the year, and the Committee tenders its grateful thanks to those Fellows and Publishers who have helped the Library in this way.

THE CHEMICAL SOCIETY

INCOME AND EXPENDITURE ACCOUNTS for the Year ended 31st December, 1954.

	1954	tec. 5.281 2 4 5.4. 2 5	£41,101 19 1
	Expenditure.	Administration Expenses: Salafels, Wages, Superannuation, etc. House Expenses and Stationery Postages Furniture  Miscellancous  Expenses of Conjoint Chemical Office.  Subscriptions  Expenses of Local Representatives  Travelling Expenses Travelling Expenses Travelling Expenses Travelling Expenses  Capital Expenditure  Oapital Expenditure  Capital Expenditure  Special Reserve Pund  Publications Reserve  Bulling and Equipment Reserve.  Investments Reserve  Investments Reserve  Staff Pensions Fund  Staff Pensions Fund  Balance, being Excess of Income over	
GENERAL PURPOSES.	1953	24 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	£40,293 12 4
GENERAL	1954	21,117 4 2 21,117 4 4 2 11,117 4 4 2 11,117 4 4 2 11,118 10 10 11,118 10 10 11,118 10 10 11,118 10 10 10 10 10 10 10 10 10 10 10 10 10	241,101 19 1
	Income.	Separate Subscriptions— On account of 1964 On account of 1965 and previous years Joint Subscriptions— On account of 1964 On account of 1963 and previous years Add Income Tax recovered on Subscriptions under Covenant Dividends on Investments	
	1953	20,539 18 0 20,539 18 0 6,648 17 1 49 16 9 37,507 17 3 1,292 18 0 38800 15 3 102 4 0 0 4	£40,293 12 4

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1954.

	1954 £ 3. d. E 3. d. 6522 8 11 24,310 12 6 6,025 11 8,035 17 3,676 17 11 3,676 17 11 3,876 17 11 3,878 18 3,818 8 3,918 8	o 44	267,159 15 5
		Annual Reports on the Progress of Chemistry Quarterly Reviews  Quarterly Reviews  Bureau of Abstracts:  Balance of Grants 1952 and 1953  Provision for Final Liability	
TIONS.	1953 £ s. d. £ s. d. 5.831 1 2 22,922 5 5 7,041 4 1 3,832 6 6 3,403 7 5 241 4 5 241 4 5 241 6 6 241 6 241 6	419 7 2 44,642 8 7 3,783 6 9 3,674 11 10 8,900 0 0 2,000 0 0 17,800 0 0	£70,171 18 8
PUBLICATIONS.	£ 5. d. £ 5. d. 1954 14,402 18 9 2,528 15 10 1,978 16 7 1,978 10 8	1040 12 1 1 194 16 9 8 8 9 6 78 4 9 1,359 2 4 9 8 7 14 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22,506 15 6
	en .	1,0	
	Income.	of Advertisements:  Reports	

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 318T DECEMBER, 1954.

	1954	E 5. d. E 6. d.  1,743 0 3  1,046 9 10  1,048 19 4  4,458 19 6  1,1468 19 6  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0  1,168 19 0	£8,555 10 0
	Expenditure.	Capital Expenditure:  Books and Periodicals	
ARY.	1953	£ s. d. £ s. d. 1,193 13 6 1,198 18 2 1,561 1 1 4,551 1 1 3,65 16 0 1 3,65 1 0 1 1,52 0 7 1,54 0 7 1,54 0 7 1,55 0 7 1,55 0 0 1 1,55 0 0 0 0 1 1,55 0 0 0 0 1 1,55 0 0 0 0 0 0 1 1,55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	£7,666 3 11
LIBRARY	1954	£ £ £ 6. £ 5. d.  2,827 9 5  2,222 6 9  2,222 6 9  2,22 17 11  82.11 10 0 0  10 0 0  10 10 0  10 10 0  10 10 0	£8,555 10 0
	Income.	Contributions for Books, Periodicals, Binding, Fittings, and Furniture: Transfer from General Purposes Account Contributions towards maintenance through The Chemical Council: Chemical Society (General Purposes Account) Account) Analy More Institute of Chemistry	
	1953	2,490 0 1 2,490 0 1 2,490 0 1 2,490 0 1 2,490 0 1 2,490 0 1 2,490 1 3,	£7,666 3 11

· Other than those received in exchange.

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1954.

1964 £ s. d. 411 18 0	£ 8, d. 332 10 6 21 9 5 380 17 10 £734 17 9	£ 8. d. 855 13 4 5 5 18 2 82 12 10
Expenditure. sheet	Cost of Publications	Pensions
ERVE FUN 1953 £ 4. d. 417 15 6 £417 15 6	2ATIONS F £ 4. d. 215 13 6 17 7 8 215 11 8 £448 12 9	10NS FUN.  \$ 5, 4, 807 8 4 4 14 9 1,332 1 5 22,144 4 6
Income.   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1955	Sales of Publications and Royalties rocelved	Transfer from General Purposes Account and Refund of Premiums \$ 90 8 7 4 14 9 Beposit Interest
1953 £ 3, d, 216 3, d, 201 12 0	£ 5. d. 801 13 0 77 1 7 1 7 1 7 1 7 1 8 12 9	2,049 8 10 81 17 4 12 18 4

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1954.

емрер 318т <b>Десемве</b> в, 1954.		Expenses of Lecturers & Delegates	Sheet	PRIZE FUND.	Prize 157 10 0 Medal 157 10 0 Miscellaneous 157 10 6 0 0	Sheet	L FUND.	Grant to the Corday-Morgan Memorial Fund Executive   60 0 0 0   Memorial Expenses (Clause 12 of the Will)   6 7 8   Miscellaneous   6 7 8   Miscellaneous   6 7 8   6	Balance, being Excess of Income over Expenditure, carried to Balance Sheet
THE YEAR	RY FUND.	1953 £ 8. d. 712 13 5 41 5 2	71 6 0 £825 4 7	AL AND 1	£ 3, d, 157 10 0 7 10 0 29 6 7	91 5 1	MEMORIA	£ 3. d. 400 0 0 4 10 0 26 2 8	100 16 5 £531 9 1
INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 318T DECEMBER, 1954	CENTENARY	Income. 1954 Dividends on Investments 878 11 9	8688 11 8	CORDAY-MORGAN MEDAL AND PRIZE	Dividends on Investments	£306 12 1	CORDAY-MORGAN MEMORIAL FUND.	Dividends on Investments 526 6 3	8 9 9893
		1953 £ 5. d. 825 4 7	£825 4 7		£ 3. d. 283 13 2 1 18 6	£285 11 8		£ 5. d. 531 9 1	£631 9 1

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1954.

1954   Expenditure.   1954   Est. d. d.   Modal	FRUST.   E S. d.   A	Prizo   105 0 0   105 0
PARADAY LECTURE FUND.   1954   1953   1954   1953   1954   1954   1953   1954   1954   1953   1954   1954   1953   1954   1953   1954   1953   1954   1953   1955	ROBERT JOHN FLINTOFF TRUST.   2, d,   E, 3, d,   Honoraria	EDWARD FRANK HARRISON MEMORIAL TRUST.  \$\begin{align*} \begin{align*} alig
1953 £ 8. d. 115 8 16 14 9 15 14 9	£ 3. d. 34 13 8	£ 1, d, 46 16 10

INCOME AND EXPENDITURE ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER, 1954.

Expenditure.   1954	## Honorarium	### Honorarium
The come   The come   The come   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1953   1954   1955   19	Dividend on Investment	TILDEN LECTURE FUND.   Dividends on Investments
1953 £ 8. d. 749 16 0 0 8 0 5 	£ 4, d. 50 1 10	2 5 d. 77 6 0 11 6 0 11 6 6 0 0 11 6 6 0 0 0 11 6 6 0 0 0 0

THE CHEMICAL SOCIETY

BALANCE SHEETS, 31st December, 1954.

	ı	285,677 0 7
	Assets.  Investments as per Schedule (cost or value when acquired) Sundry Debtors (including payments in advance and postage stamps linkan) Balance at Bank (including Deposit) and Cash in hand	
PURPOSES.	1953 28,301 6 6 13,225 5 5 4,225 6 4 2 34,365 4 2	£80,305 1 5
GENERAL PURPOSES.	1954 d. £ s. d.  2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£85,677 0 7
	Example   Exam	
	1953  £ d. £ s. d. 18,780 3 9 14,084 0 10 15,800 0 0 1,200 0 0 1,200 0 0 27,021 9 3 291 16 2 27,433 5 6 764 16 0 764 16 0	£80,305 1 5

BALANCE SHEETS, 31ST DECEMBER, 1954.

Assets. 1954  E 3. d.  E 4. d.  Investments as per Schedule (cost or value when acquired) 10,978 19 7	Sundry Debtors	£24,344 13 0
PUBLICATIONS FUND.  1954   1953   2 4 6 6 7 8 2 0 10,378 19 7 11,003 6 7 120,387 1 7	9. d. 5.512 10 1 17 8 11,324 0 2 1	1
Liabilities. Sundry Creditors	E Sundry Creditors 12,586  Add Transfer from General Purposes  Account 12,686  Add Transfer from General Purposes  Account	General Purposes Reserve: Amount brought forward
1953 E	16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,714 5 11 1 0 0 417 15 6 3,133 1

BALANCE SHEETS, 31ST DECEMBER, 1954.

	1964 £ 5. d. 130 9 9 nk 4,010 14 11 2,734 17 3 £6,876 1 11	£ 3. d. 28 0 9 5,176 0 2 5,178 1 8	27,698 3 4 27,698 3 4 813 9 6
ND.	Assets.  Sundry Debtors	Sundry Debtors	Sundry Debtors
CATIONS FU	1953 E 3. d. 105 11 9 2,011 19 10 4,133 12 4 66,251 3 11	(ONS FUND. 1,200 0 0 3,672 3 10 883 3 9 E5,355 7 7	EX FUND.  27,608 27,608 148 1 9 148 1 9 28,265 8
SPECIAL PUBLICATIONS FUND	1954 2 3. d. £ 3. d. 188 19 6 380 17 10 6,569 17 4 66,876 111	STAFF PENSIONS  £ 3, d, E 3, d, E 1,200  6,313 12 10  11 6 4  82 12 10  6,407 12 0  7 12 6  7 12 6  E5,421 2 7  E5,421 2 7  E5,421 2 7	S. d. E. 3. d. 27 27 27 27 27 27 27 27 27 27 27 27 27
8	Example 1. Sundry Creditors	Sundry Creditors	Sundry Creditors
	1953 6, 4, 6, 2, 4, 5, 6, 6, 10 6,973 7 10 215 11 8 6,188 19 6 26,261 3 11	\$ 5. d. £ 5. d.  41 14 9  3,981 11 5  1,332 1 6,313 12 10  \overline{\pi_{5,335}} \overline{\pi_{5,355}} \overline	£ 5, d, £ 5, d, 61 19 11 25,531 1 0 26,645 0 11 28,076 1 11 46 0 7 71 6 0 117 6 7 258,255 8 5

BALANCE SHEETS, 31ST DECEMBER, 1954.

	1954 £ 3, d. 161 18 0 7,370 19 7 93 1 6	27,625 19 1	£ 8. d. 235 5 7 12,739 5 10 933 19 9	213,408 11 2
ZE FUND.	Assets.  Sundry Debtors when acquired) Balance at Bank		Sundry Debtors surfue when acquired; Balance at Bank	
AL AND PRI	1953 £ 3. d. 65 2. 8 6,868 3. 2 642 1.11	6 7 295,73	MEMORIAL  170 1 1 12,232 1 5 499 9 5	212,901 11 11
CORDAY-MORGAN MEDAL AND PRIZE FUND.	1954 . c s. d. E s. d. . 5,885 9 8 . 12 16 5,898 6 1	1,598 18 11 113 7 6 1,712 6 5 £7,625 19 1	CORDAY-MORGAN MEMORIAL FUND.  E s. d. E s. d.   E s. d.   S s. d.   Sundry   10,091 19 1   12,232 1 5   Investment   11 14 5   10,103 13 6   10,103 13 6   10,103 13 6	2,778 11 5 93 12 8 2,872 4 1 £13,408 11 2
COR	Liabilities.  Sundry Creditors Capital Account: A per lust Balance Sheet Add Net Profit on change of Investments	Income Account:  As per last Balance Sheet  Add Breess of Income over Expenditure  for year	Sundry Creditors	As per last Balance Sheet
	1953 £ s. d. £ s. d. 80 19 2 5,885 9 8	18 11	E s. d. E s. d. 10,090 2 8 1116 5 10,091 19 1	2,677 15 0 100 16 b 2,778 11 b 212,901 11 11

BALANCE SHEETS, 31ST DECEMBER, 1954.

1954 E s. d. 669 s. d. 32 13 3 E501 17 3	£ 3, 4, 1,000 0 0 0 61 9 5	2
Assets.  Assets.  Investments as per Schedule (cost or value when acquired)  Balance at Bank	Sundry Debtors	INVEST.  Investments as per Schedule (cost or value when acquired)  Balance at Bank
TURE FUND.  1953  # 4.6 frv  48 0 0 Bal	FLINTOFF TRUST.  2	SON MEMO 1,101 7, 4, 4, 106 6 7, 106 6 7, 106 14 6
E s. d. E s. d. d. s. d. 48 9 488 8 7 488 8 7 691 1100 6 1413 3 6 601 1100 6 6187 4	ROBERT JOHN FI  2 s. d. £ s. d. 1,110 19 6  44 16 9  E1,067 17 5	EDWARD FRANK HARRISON MEMORIAL TRUST.  t s. d. g. s. d. 1,101 7 11 Investments as positive in 1,204 7 8  rim in 1,204 7 8  rim in in 1,204 7 8  rim in
Liabilities.  Sundry Creditors  Excess of Assets over Liabilities as per last Balance Sheet	Sundry Creditors	Sundry Creditors
1953  E. r. d. E. s. d.  502 3 4  15 14 9  486 8 7  E487 4 0	6 6 6 7 114 8 1,078 0 6 32 19 0 1,110 19 6	2 2 6 10 1,182 5 8 22 2 0 

BALANCE SHEETS, 31ST DECEMBER, 1954.

	1954 E 3. d. 23,023 4 7 ost Office 804 10 7	224,808 15 2	£ 3. d. 1,615 5 0 132 7 2	C1,747 12 2	£ £ d. d. 27 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£2.095 17 2 Honorary Treasurer.
	Assets.  Sundry Debtors		D. Investment as per Schedule (cost or value when acquired) Balance at Bank		Sundry Debtors	MICHAEL W. PERRINS, Honorary Treasurer.
RESEARCH FUND.	1953 E s. d. 23,923 4 7 857 1 2	8231,807 5 9	1,615 5 0 1,615 5 0 111 0 5	E1,747 12 2 E1,726 5 6 TILDEN LECTURE FUND.	2 3, d, 10 1 7 1,878 14 10 175 8 4	£2,064 4 9
RESEARC	1954 5. d. E 5. d. 800 14 10 82 7 2 	224,808 15 2	I * . d. £ * . d. E * . d. I 1,015 5 0 III 0 5 B III 0 5	E1,747 12 2	2 3. d. £ 3.11 6 2,060 12 11 31 12 9 2,092 5 8	22,096 17 2
	Liabilities.  Sundry Creditors		Sundry Creditors 1.7 Excess of Assets over Liabilities as per last Balance Sheet 1.7 Add Excess of Income over Expenditure for year		Sundry Creditors Librilines as pre last Excess of Assets over Liabilities as pre last Balance Sheet 2,0 Add Excess of Income over Expenditure for year	
	1953 c s. d. E s. d. 3. d. 23,956 18 4 25 8 10	£24,807 6 9	\$ 5. d. \$ 2.10 1 1,702 8 7 21 6 9 1,723 15 4	21,726 6 6	2,023 18 3 36 14 8 2,060 12 11	£2,064 4 9

MICHARL W. PERRIN, Honorary Treasurer.

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

FINSBURY CIRCUS HOUSE, BLOMFIELD STREET, E.C.2 17th MARCH, 1965.

	Market Value 31st December,	1,500	1,213	1,300 1,300	2,583	985 915	985 1,007	955 995 1.126	£17,591		660 653	080	1,016	£4.031	105	755 755	1,000 750 1,410 975	£5,195		£ 407 693 763 174	52,037
<u>D</u> .	Cost or Value when	£ 3. d.	,	496 19 9 1,292 3 3	64 00	1,020 3 0 951 5 3	1,015 4 9 981 14 9	987 1 6 1,040 2 6 1,113 1 0	£17,821 12 11	FUND.	569 0 10 719 18 9		973 15 1	£4,010 14 11	92 14 1	> oo c	1,442 3 6 1,442 3 6 975 4 0	£5,176 0 2		£ 3. d. 386 12 10 725 2 0 678 18 0 188 2 0	£1,978 14 10
SPECIAL RESERVE FUND	Newtined Details	£1.500 3% Saylngs Ronds 1055/65	£1,280 3% Funding Loan, 1959/69 £1,165 21% Funding Loan, 1956/61	E500 3% Defence Bonds, 3rd Issue	E2,682 10s. 94. 35. Liverpool Orporation Stock, 1955/88 E1,500 3% Ceylon Stock, 1955/64	2.1700 34% Covent Garden Properties, Ltd., Red. Deb. Stock, 1968	Li,000 44% Nelson Financial Trust, Ltd., Deb. Stock, 1970	Liono 4% Dominon and General Tribs, Lid., Red. Deb. Stock, 1969464 £1,000 4% Nugby Portland General Co., Lid., Unsec. Stock, 1967/62 £1,000 61% Clau Line Steamers, Lid. Chm. Red. 18t. 'B 'P'ef. Stock		SPECIAL PUBLICATIONS FU		£1,000 34% London County Consolidated Stock, 1988/73 £1,000 4% Government of the Fed. of Rhodesia and Nyasaland Stock,	1972/74	STARE DENSIONS FITND	: ::	::	£750 34% Defence Bonds (Conversion Issue) £1.500 3% Sheffield Corporation, Red. Deb. Stock, 1967/69 £1,000 34% Southern Rhodesia Stock, 1965/65		TILDEN LECTURE FUND	£419 44. 10d. 3%, Funding Loan, 1959/69	
	Market Value 31st December,	£ £ 2310	1,880 970	1,000	4,154 2,419	2,316 2,145	880 601 1,015	318 1,160 800	938 844 900	968 1,038	455 908 838	878 739	£10.1	976 938 900	713	1,313 750	£39,282		2,001	2,171 1,904 1,900 1,146 899	£11,021
	Cost or Value when	£ 3. d. 2.044 18 0	•	0 0 0 1,000 0 0 194 7 0	5,704 9 8 2,549 4 5	2,434 10 8 2,552 16 7	5.5 3 9 576 2 9 1,007 1 9	863 9 3 1,149 3 9 839 16 C	940 8 5 778 16 6 884 1 6	4-	521 6 6 549 6 6 580 12 6	496 9 6 702 9 2 665 19 8	7 .	504 4 6 700 11 6 794 9 0		939 Ib 3 888 I3 10	£38,755 3 11		1,566 16 4 1,000 0 0	2,276 1 11 1,929 1 4 2,002 10 0 1,204 10 0 1,000 0 0	£10,978 19 7
GENERAL PURPOSES.	Mominal Datails	£2 609 14: 4d. 34% Conversion Loss. 1961. or after	£2,000 3% Savings Bonds, 1965/75 £1,000 3% Funding Loun, 1959/69	25 34% Defence Bonds (Conversion Issue)	E4,747 4. 6d. 3% British Transport Guaranteed Stock, 1978/88 52546 1s. 4d. 3% British Electricity Guaranteed Stock, 1978/88 62,248 6. 6d. 3% British Electricity Guaranteed Stock, 1988/73 62,248 6. 6d. 3% Commencement of Stock 1988/73	1944 66	Livoo 4% Cantaluna Teruer Kanway Freft, 1900-Stock	23.0.3 % O'Minhi, Link, 184 201c. Idd. 1.0.5 rde. 210.6 % O'Minhi, Link, 184 201c. Idd. 1.0.6 % O'Minhi, Link 6 Collery Co., Ltd., Mort. Deb. Stock	£1 Shares £500 8% British Petroleum Co., Ltd., Cum. First Pref. Stock 1,000 8% Bell London & Proyriclal Props. Ltd., Cum. Pref. £1 Shares	900 64% J. & N. Phillips & Co., Ltd., Cum. Pref. £1 Shares 1,000 5% Geo. Sandeman & Sons, Ltd., Cum. Pref. £1 Shares	100 Allen & Hanbirrys, Ltd., Ord. £1 Shares £440 Cable & Wireless (Holding), Ltd., Ord. Stock £550 Commercial Union Assurance Co., Ltd., Stock	£300 Goodlass Wall & Lead Industries, Ltd., Ord. Stock £145 Legland Motors, Ltd., Ord. Stock £180 Shell Transmet and Trealing Or 114 Ord stock	Ltd., D	hares	: : :	600 Consolidated Line Corporation, 14th, Ord. 11 Single £300 Smiths Stamping Works (Coventry), Ltd., Ord. Stock		PUBLICATIONS FUND.	£2,260 193, 9d. 34% Conversion Loan, 1961, or after	E22261 Is, 113, 3% Sarvings Bondis, 1960/70	

# SCHEDULE OF INVESTMENTS.

							_	
	Market Value 31st	December, 1954.	1,854 1,722 453 453 330 330 231 900 140 300 955 955	267 898 592 472 205 332 621 1,598 £12,652	3,600 1,835 1,500 3,840 3,586 3,588 3,588	1,044	£1,461	218
FUND.	Cost or	Value when Acquired.	£ 7. d. 1,426 4 2 1,880 11 0 450 17 0 412 10 0 208 7 6 208 7 6 208 10 148 10 14	237 3 0 684 10 0 821 0 0 107 6 6 107 6 6 344 5 0 1,088 0 0	3,625 16 8 500 0 1,515 0 4,060 0 8,724 1 6,015 0 1,515 0 1,515 0 1,015 0 1,015 0	1,080 7 4 £23,923 4 7	D. £1,615 5 0	£469 4 0
EMORIAL			, 1968/73 90/95 1962/67  f. Stook, 1971	::::::::::::::::::::::::::::::::::::::	FUND.		K, 1978/88 E	
CORDAY-MORGAN MEMORIAL		etails.	1961, or after i, or after unranteed Stock numeed Stock, 19 1967 1986/96 Stock, 1981/71 ock, 1952/55 och stock 1667/76	Stock Ord. Stock Ltd., Ord. Stock Stock Ltd., Ord. Stock Stock Stock Stock Stock	RESEARCH , 1901, or after  Burranteed Stock, Guaranteed Stock in Registered Stock	77/274	SPECIAL LECTURES FUND usport Guaranteed Stock, 1978/88 EFARADAY LECTURE FIND	31, or after
CORDAY-N		Nominal Details.	Conversion Loan, 1961, or after	td., "B" Ord.  d Brewery, Ltd.  d Brewery, Ltd.  Co. (G.B. & I.)  Ltd., Ord. Stock  td., 44% Deb.  shire Insurance C  Co., Ltd., Ord., I.d., Ord., I.d.,	RESEARCH FUND.     RESEARCH FUND.     RESEARCH FUND.     Research   Researc	v Zealand Stock	SPEC	ersion Loan, 19
			El. 530 22, 56. 34%, Conversion Loan, 1961, or after	Eil 98 Barchias Bank, Ldd., "B. Yord. Stock	RESEARCH FUN  150.0 3%, Defence Bonds, 4th Issue  15.05 3%, Defence Bonds, 4th Issue  15.05 3%, Salving Bonds, 1936/61  15.05 3%, Salving Bonds, 1936/65  15.75 2r, 1d, 3%, British Transport Quranteed Stock, 1968/  15.10 8r, 2d, 3%, British Electricity Guaranteed Stock, 1968/  15.00 3%, Commonwealth of Australia, Registered Stock, 1968/	5 75. 0d. 3% Nev	SPECIAL LECTURES FI E1,660 17s. 3d. 3% British Transport Guaranteed Stock, 1978/88 FARADAY LECTURE FI	£473 8s. 9d. 3½% Conversion Loan, 1961, or after
			£1,530 £1,973 £477 1 £1,062 £413 1 £217 1 £1,035 £1300 3	£108   £206   £160   £108   £340   £69   £69   £7   £8	£4,177 1 £500 3% £1,835 5 £4,000 2 £3,755 5 £3,719 £	£1,116	£1,669	£473 8
	Market Value 31st	December, 1954.	2, 2, 2, 33, 1, 2, 2, 4, 33, 1, 3, 6, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	2,503 £27,089 1,703 653 662 662	132 138 305 246 559 805 805 245 587 1,742	463 478	£941 55	£1,358
	Cost or	Value when Acquired.	2, 50 2,491 110 2,534 7 6 2,237 7 9 2,237 8 9 4,500 0 0 2,000 0 0	onds, 1961/64 2,936 7 6  E27,698 3 4  L. AND PRIZE FUND.  1,1978/88 14 0 647 11 1 775/80 299 6 4	133 14 5 297 15 0 297 15 0 713 16 0 567 8 0 263 5 0 1,014 0 0 £7,370 19 7	TRUST	81,000 0 0 SIAL TRUST. 50 1 6	, [-]
FUND.				AND PR 1978/88 5/80 5/80	\$137 109, 0d. 30°, rederated Manay States do vernments Stock, 1991/70 \$137 109, 0d. 39°, rederated Manay States do vernments Stock, 1991/70 \$130, 0d. 34°, suburmemouth Corporation Stock, 1964/52 \$100 Barclays Hank (D. C. & O.)." A. "Ord. Stock	INTOFF TI	EDWARD FRANK HARRISON MEMORIAL 18, 10, 11, 10, 10, 10, 10, 10, 10, 10, 10	
CENTENARY		ails.	E2.637 10s. 6d. 34% Conversion Loan, 1961, or after	E43,500 31% Commonwealth of Australia Treasury Bonds, 1961/04  CORDAY-MORGAN MEDAL AND F E1,951 84, 24, 31% War Loan, 1952, or after E635 3a, 104, 3% British Transport Guranteed Stock, 1978/88 E940 18, 34, 38, 1941sh Quiana Government Stock, 1976, or	tion Stock Recording Stock Record, 1954/59 Ord. Stock ord. Ord. Stock ord. Ord. Stock ord. Jord. Stock di. Stock id., Stock id., Stock	or after	HARRISO or after	
CEN	}	Nominal Details.	22,637 10. 6d. 34% Conversion Loan, 1961, or after 22,407 13s. 11d. 3% Savings Bonds, 1965/65 22,500 8% Savings Bonds, 1966/70 22,705 18s. 7d. 24% Savings Bonds, 1964/67 22,705 18s. 7d. 24% Savings Bonds, 1964/67 22,705 18s. 7d. 24% Savings Bonds, 1964/67 22,705 18s. 7d. 34% Consolidated Stock, 1967, or after 25,500 8, 11d. 4% Consolidated Stock, 1967, or after 25,600 19s. 4d. 34% Agricultural Mortgage Corporation 10, 2d. 3% New Zealand Stock, 1973/77 21,970 11s. 4d. 38% New Zealand Stock, 1973/77 21,671 18s. 2d. 34% Nov Zealand Stock, 1973/77	cornonwealth of Australia Treasury B CORDAY-MORGAN MEDA War Loan, 1952, or after "British Transport Guaranteed Stock, Consolidated Stock, 1957, or after "Consolidated Stock, 1957, or after "British Guaranteed Stock, 1957, or after "British Guaranteed Stock, 1957, or after "British Guaranteen Stock, 1957, or after "British Guaranteen Stock, 1957, or after	in Malay States mouth Corpora mouth Corpora se Co., " A " " ( Cd. Story Cd. Story Cd. B. & I.) Ltd., D Trust, Ltd., D Trust, Ltd., D Ssurance Co., I	ROBERT JOHN FL. 1832 2r. 2d. 34% Conversion Loan, 1961, or after 2545 19s. 4d. 3% British Transport Guaranteed Stock,	EDWARD FRANK HARRISC 281 15s. 84. 34%, Convention Loan, 1940, to atter	no anderen
		N	477 19. 6d. 34% Conve 477 18. 11d. 3% Saving 500 3% Saving Bonds, 705 18. 7d. 24 vis Bonds, 7379 13. 6d. 3% British 500 3% British Electric 183 16s 11d. 4% Conso 183 16s 11d. 4% Conso 185 185 186 186 38 % Agrid 510 18. 2d. 34% Agrid 510 18. 2d. 38% Nove Zee,	CORDAY 38% British Gv. Bar La	32% Pederated 34% Bourne 34% Bourne 34% Bourne 34% Bourne Bank (D. C. C. Combe Heid Combe Heid Tobacco Co. 1 Investment cial Union Au	F Conversi 3% British T	EDWARD	150 157 0/o :
				, · · · · ·	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	٠,	I m :	3