

ONE HUNDRED AND FIFTEENTH ANNUAL
GENERAL MEETING.

THE One Hundred and Fifteenth Annual General Meeting of the Chemical Society was held in the Great Hall of The University, Nottingham, on Tuesday, March 27th, 1956, the President, Professor W. Wardlaw, being in the Chair. The Notice convening the Meeting was read by Professor E. D. Hughes, Honorary Secretary, who was invited by the President to present the Report of Council for the year ended December 31st, 1955.

Professor Hughes referred to the new subscription arrangements, which had been generally welcomed, and their effect on the Fellowship. Although a number of resignations had been received when the arrangements were introduced, this trend had now been reversed, and the Council was actively considering means whereby the Fellowship could be further increased.

Professor Hughes referred also to the many activities of the Society recorded in the Report of Council, and mentioned especially the honours conferred upon Fellows in the Birthday and New Year Honours Lists, and the award of the Nobel Prize for Chemistry to Professor du Vigneaud, an Honorary Fellow of the Society. In conclusion, Professor Hughes paid a tribute to all those who had assisted the Society in many ways as Members of Committees or representatives on various bodies, and to the work of the permanent staff of the Society during the past year.

The Accounts for 1955 were presented by the Honorary Treasurer, Mr. M. W. Perrin, who referred to the new layout which he hoped would make it simpler for Fellows to understand the financial position of the Society. The Financial Section of the Report, moreover, drew attention to the main features of the Accounts and, in particular, to the revised subscription arrangements. So far as could be judged on the basis of limited experience, these had had no adverse effect upon the finances of the Society.

Mr. Perrin referred also to plans which the Council had lately approved for improving further the service to Fellows. In particular, the *Proceedings*, which was the Society's only link with many Fellows, was to be increased in size and, he hoped, made more readable. A full statement on these proposals would be issued to Fellows.

Mr. Perrin referred also to the transfer of £5,000 on General Purposes Account to the Society's reserve, and welcomed this addition to the financial strength of the Society. He indicated that the surplus should in part be set against previous deficits, and it would also be required to meet in part capital expenditure over the next few years. The Council had, for example, recently approved proposals for refurnishing and rearranging the Meeting Room, and would be greatly assisted by the existence of this surplus.

Turning to the cost of publications, Mr. Perrin mentioned with appreciation the financial assistance received from the Chemical Council. It had been found necessary to make certain increases in the price at which publications were sold to non-Fellows. He was, however, pleased to report that the Council had agreed that no changes be made in the price of publications to Fellows for 1957. There would be no increase in costs, therefore, for Fellows before January 1st, 1958, at the earliest.

After discussion the President moved that the Report of Council and the Accounts for 1955 be adopted by the Meeting. This proposal was seconded by Dr. L. E. Sutton, Honorary Secretary, and was agreed unanimously.

The President then reported the following elections to the Council :

President :

Professor E. L. Hirst.

Honorary Secretary :

Dr. J. Chatt.

Vice-Presidents who have not filled the Office of President :

Professor E. D. Hughes.

*Elected Ordinary Members of Council :**Constituency I :*

Professor R. M. Barrer.

Dr. G. W. Kenner.

Dr. A. Maccoll.

Mr. L. A. K. Staveley.

Constituency II :

Professor A. G. Evans.

Constituency IV :

Professor L. Hunter.

Professor B. Lythgoe.

On the motion of the Honorary Treasurer, seconded by Professor F. Bergel, Messrs. W. B. Keen and Co., Finsbury Circus House, London, E.C.2., were reappointed as the Society's Auditors for 1956.

A vote of thanks to the President, Officers, Council and Local Representatives was proposed by Professor A. W. Johnson, and was carried with acclamation.

After an interval, the Meeting was resumed at 10.45 a.m., and the President presented the Corday-Morgan Medal and Prize for 1954 to Dr. R. E. Richards.

Professor Wardlaw then delivered his Presidential Address "Alkoxides, Old and New."

A vote of thanks to the President for his address was proposed by Professor H. W. Melville, and was carried with acclamation.

At the conclusion of the Meeting the President referred briefly to his pleasure in serving the Society as President during the past two years, and in handing over the badge of office to his old colleague and friend, Professor E. L. Hirst. Professor Hirst, in a brief reply, expressed his appreciation of the honour accorded to him by the Society.

REPORT OF COUNCIL FOR 1955.

I. FELLOWSHIP.

1. *General.* On December 31st, 1955, the number of Fellows of the Society was 8936. Fellowship changes during 1955 and previous years are given in the following Table :

	TABLE I.				
	1951.	1952.	1953.	1954.	1955.
Number of Fellows on January 1st	8353	8616	9063	9249	9123
<hr/>					
<i>Additions :</i>					
Elections	700	947	790	670	678
Reinstatements	25	34	29	26	27
Miscellaneous	—	1	—	—	—
	— 725	— 982	— 819	— 696	— 705
<i>Deductions :</i>					
Deaths	62	65	58	71	60
Resignations	273	341	467	583	712
Removals	127	128	106	167	117
Miscellaneous	—	1	2	1	3
	— 462	— 535	— 633	— 822	— 892
Net change in year	+263	+447	+186	—126	—187

At the end of 1954 and in the early months of 1955, following the cessation of the Joint Subscription Scheme, a large number of resignations were received. However, resignations at the end of 1955 were substantially fewer, and the Council is actively considering means whereby this trend can be maintained and the Fellowship increased.

2. *Congratulations.* The congratulations of the Society were conveyed to the following Fellows who were honoured in the Birthday and New Year Honours Lists :

K.B.E.

Alexander Fleck.
Owen Haddon Wansbrough-Jones.

C.B.

Norman Charles Wright.

The Council has congratulated Professor Vincent du Vigneaud (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.

Sir Alexander Todd.

Davy Medal.

Professor H. W. Melville.

II. PUBLICATIONS.

1. *Journal.* During 1955, 1084 scientific communications were received for publication in the *Journal*, this number being an increase of 6.3% over that (1019) received during 1954 and a record for any year in the Society's history. Some comparative figures on this and other aspects of publications in the *Journal* are given in Tables 2—6.

TABLE 2.

	1938.	1952.	1953.	1954.	1955.
Papers and Notes received.....	507	1046	946	1019	1084
Less rejected or withdrawn	11	59	52	49	68
	496	987	894	970	1016
Papers and Notes published	404	1000	866	961	908
No. of pages (Papers and Notes)	1917	4901	4028	4552	4297
No. of pages (total, excluding Index Volume)	2120	5056	4200	4712	4496
Average no. of pages per communication...	4.75	4.90	4.65	4.73	4.73

TABLE 3.

Numbers of Communications Received for Publication.

Year...	1938	1944	1947	1948	1949	1950	1951	1952	1953	1954	1955
Nos. ...	507	242	523	548	739	874	910	1046	946	1019	1084

TABLE 4.

Numbers of Items in the Journal.

	1938.	1948.	1952.	1953.	1954.	1955.
Papers (General, Physical, and In-organic)	102	124	194	180	135	168
,, (Physical Organic)	—	16 *	134	93	125	153
,, (Organic)	275	326	556	492	581	474
Notes	27	45	116	101	120	113
Lectures and Addresses	9	5	6	6	7	4
Obituary Notices	37	17	21	14	22	12
Annual General Meeting	1	2	2	1	1	1
Extraordinary General Meeting...	—	—	—	—	1	—
Bye-laws of the Chemical Society	—	—	—	—	1	—
Editorial Nomenclature Report...	—	—	1	1	1	1
I.U.P.A.C. List of Atomic Wts.	1	—	—	1	1	—
	452	535	1030	889	995	926

* Class first introduced December 1948.

TABLE 5.

Percentage Distribution in the Journal.

	1948.	1949.	1952.	1953.	1954.	1955.
Papers (General, Physical, and In-organic)	20.3	16.9	19.4	20.8	14.0	18.5
,, (Physical Organic) *	3.1	14.4	13.4	10.8	13.0	16.9
,, (Organic)	63.8	60.9	55.6	56.7	60.5	52.2
Notes	8.8	7.8	11.6	11.7	12.5	12.4

* Class first introduced December 1948.

Communications published in the *Journal* during 1955 numbered 908, a decrease of 5.6% compared with the number (961) published during 1954. This decrease was due to difficulties at the printers, and steps have been taken which it is hoped will overcome the difficulties and permit the arrears to be soon overhauled.

Contributions from industrial laboratories and industrial research organisations published during 1955 totalled 94, including 7 published jointly with academic institutions and 1 jointly with a Government organisation; this represents 10.3% of the total (the figure for 1954 was 13.1%). Contributions from Government sources totalled 43, 4.7% (1954, 4.9%), including 10 jointly with academic institutions and 1 jointly with an industrial organisation. Contributions from overseas published during 1955 numbered 166 (18.3%) (1953, 16.2%;

TABLE 6.

	1948.	1952.	1953.	1954.	1955.
Australia.....	13	62(1)	50	62(2)	46(2) *
British Colonies and Protectorates	—	6(3)	5(1)	9(2)	7
Canada	2	2(1)	2	6(1)	12(4) †
Egypt	15	12	8	16	15
France	2	10	7	8(2)	10
Hungary	6	3	7	—	4
India and Pakistan	3	3(1)	6	13	15
Irish Republic	—	4	5	5	10(2)
Israel	2	10(2)	20	15	11(1)
Italy	—	—	—	9	1
Japan	—	—	—	—	5 †
New Zealand	14	18	12(1)	14(1)	10
South Africa	1	14(1)	7	8(1)	9
U.S.A.	2	8(3)	7(1)	24(3)	7(1) *
Miscellaneous	7	5	4(1)	5(1)	8(2)
	67	157(12)	140(4)	194(13)	166(12)

* Includes 1 jointly.

† Includes 3 jointly.

1954, 20.2%). These sources therefore do not account for the increased receipts during 1955. In Table 6 joint publication is shown in parentheses.

2. *Annual Reports on the Progress of Chemistry for 1954 (Volume LI)*. These were issued in July 1955 and contained 400 pages (378 in 1954).

3. *Quarterly Reviews*. Volume IX (1955) contained 15 articles occupying 414 pages (Volume VIII, 17 articles, 450 pages). A Cumulative Index of Authors and a short Cumulative Index of Subjects was included at the end of the volume, as in 1954.

4. *Current Chemical Papers*. In its second year, *Current Chemical Papers* was produced essentially on the same lines as in the previous year. However, the classification used for physical chemistry was revised so as to bring closer together papers in specific fields of work.

The number of journals covered was increased during the year from 437 to 469, and there was an increase (11½%) in the number of pages of *Current Chemical Papers*. Coverage is believed to be now fairly comprehensive for pure chemistry, except for Russian regional journals, of which few were delivered during 1955 (it is hoped that this situation will improve in 1956); lists of journals covered are published with the January issues (1955 and 1956), and suggestions to the Editor for additional journals will be welcome.

An edition on air-mail paper and an edition printed only on one side of the paper were available in 1955.

Comparative statistics are given in Tables 7—9. Apart from the overall increase in size, differences between the figures for 1954 and 1955 do not seem to be significant.

5. *Special Publications*. Special Publication No. 2, a *Report of a Symposium on "Peptide Chemistry,"* held in London on March 30th, 1955, was published in July, 1955. Special Publication No. 3, a *Report of a Symposium on "Recent Work on Naturally Occurring Nitrogen Heterocyclic Compounds,"* held in Exeter on July 13th—15th, 1955, was published in January, 1956.

TABLE 7.

Current Chemical Papers: *Summary*.

	Totals.		Average per issue.	
	1954.	1955.	1954.	1955.
Titles of papers listed.....	19,531	21,360	1628	1780
Issues of journals yielding titles	2006	2277	167	190
Journals yielding titles	325	381	129	182
Pages (of <i>C.C.P.</i>).....	633	706	53	58
Issues of journals not yielding titles	—	1438	137	120
Total number of journals scanned	437	469	—	—

TABLE 8.

Papers in Current Chemical Papers, classified according to the Country in which the original Journal was published.

	Numbers.		Percentages.		No. of journals.
	1954.	1955.	1954.	1955.	1955.
U.S.A.	6104	6356	32.54	29.77	66
U.K.	2625	3126	13.94	14.63	66
Germany	1889	2111	10.02	9.88	36
U.S.S.R.	1760	2037	9.35	9.54	15
Japan *	1653	1691	8.78	7.92	38
France	1113	1205	5.91	5.64	21
Scandinavia	494	757	2.62	3.54	21
India	443	611	2.35	2.86	17
Czechoslovakia *	328	591	1.74	2.77	4
Netherlands	509	585	2.70	2.74	10
British Commonwealth (other than U.K. and India)	311	423	1.65	1.98	19
Italy	393	385	2.09	1.80	13
Switzerland	297	325	1.58	1.52	7
Poland	166	261	0.89	1.22	3
Austria	81	251	0.43	1.18	5
Hungary	174	159	0.93	0.74	5
Spain and Portugal.....	257	155	1.37	0.73	8
Jugoslavia.....	94	93	0.50	0.44	4
Belgium.....	45	84	0.24	0.39	5
Latin America	50	71	0.27	0.33	10
China (Formosa)	—	31	—	0.14	1
Roumania	—	30	—	0.14	3
Israel	8	11	0.04	0.05	1
Turkey	12	11	0.06	0.05	3
	<u>18,806</u>	<u>21,360</u>	<u>100.00</u>	<u>100.00</u>	<u>381</u>

* Too high owing to duplicate publication in Japanese or Czech and other languages.

TABLE 9.

Languages used in Papers included in Current Chemical Papers—Approximate Percentages.

	1954.	1955.
English	59.5	56.8
German	13.2	13.9
Russian	9.4	9.9
French	7.1	6.6
Japanese	4.4	6.2
Italian	2.1	1.8
Czech	0.9	1.7
Spanish and Portuguese.....	1.6	1.0
Polish	0.5	1.0
Hungarian	0.5	0.3
Others	0.8	0.8
	<u>100.0</u>	<u>100.0</u>

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.

2. *Anniversary Meetings.* The Anniversary Meetings were held in London on March 30th and 31st and April 1st.

3. *Centenary Lectures.* Professor H. C. Brown (Purdue University, Indiana), delivered a Centenary Lecture, entitled "Chemical Effects of Steric Strains" in London, Leeds, Manchester, Newcastle upon Tyne, and Sheffield. Professor M. Calvin (University of

California, Berkeley) delivered a Centenary Lecture entitled "The Photosynthetic Carbon Cycle" at London, Glasgow, Manchester, and Birmingham.

IV. LIBRARY.

A major programme of modernisation and improvement has been undertaken in the Library. The space available for readers has been increased and new furniture installed. Additional storage accommodation has been secured outside Burlington House for those books and periodicals that are in less frequent demand. These changes are referred to in greater detail in the Report of the Joint Library Committee (Appendix B).

V. OTHER ACTIVITIES.

1. *Grants for Research.* Grants from the Research Fund totalling £668 were made to twenty-five applicants.

2. *Corday-Morgan Medal and Prize.* The Corday-Morgan Medal and Prize for 1953 was awarded to Dr. J. W. Cornforth.

3. *Third International Congress of Biochemistry.* Professor F. Bergel represented the Society at this Conference in Brussels.

4. *International Conference on Co-ordination Compounds.* Dr. L. E. Sutton represented the Society at this Conference in Amsterdam.

5. *German Chemical Society.* Professor E. D. Hughes and Mr. J. R. Ruck Keene attended the Annual Meetings held in Munich from the 11th—16th September, 1955.

VI. ADMINISTRATION.

1. *Council.* At the Annual General Meeting on April 1st, the following were elected :

Honorary Secretary	Professor F. Bergel.
Vice-Presidents who have not filled the Office of President	Professor M. Stacey, Sir Alexander Todd.
Elected Ordinary Members of Council.....	Dr. D. W. Adamson, Dr. G. R. Barker, Professor F. Bell, Dr. A. Hickling, Dr. A. W. Johnson, Dr. A. Maccoll, Dr. F. H. Pollard, Dr. W. Wild, Dr. G. T. Young.

2. *Local Representatives.* The following changes in appointments have been made :

Australia	Dr. K. H. Pausacker in place of Professor A. J. Birch.
Canada	Professor J. K. N. Jones in place of Dr. D. W. McFarlane.
Edinburgh	Dr. G. O. Aspinall in place of Dr. T. R. Bolam.
India	Professor T. R. Seshadri in place of Sir Shanti Bhatnagar.
Manchester	Mr. A. C. Farthing in place of Dr. M. A. T. Rogers.
South Africa	Professor F. L. Warren in place of Professor W. Pugh.

3. *Administrative Offices.* As part of a scheme for providing improved accommodation for the Library, certain members of the Society's administrative staff are now housed at 9/10 Savile Row, and the main stock of the Society's publications has been moved there. Arrangements have also been made for the editorial staff to transfer to Savile Row at a later date. All communications from Fellows, however, should still be sent to Burlington House, which remains the postal address of the Society.

VII. FINANCE.

1. *Method of Presentation of the Accounts.* The Council hopes that Fellows will find the new lay-out of the Accounts, made possible largely as a result of the revised subscription arrangements, more simple than that adopted in former years. However, since individual items are, in some cases, compiled on a different basis, it is not possible to show comparative figures for the preceding year.

Whereas formerly all the expenses of publication were included in the Publications Account, the income shown there was only that received from non-Fellows, from advertisement revenue, and from the Publications Fund investments. The income received from Fellows for publications supplied was included with subscription income, and was shown in the General Purposes Account. Now all income from publications, from whatever source it is received, is shown in the Publications Account. The accounts for 1955, therefore, indicate for the first time the true financial position of each of the Society's main publications.

For greater clarity the Publications Fund and the Special Reserve Fund have been consolidated with the General Purposes Fund in one Balance Sheet. The Special Publications Fund and the Staff Pensions Fund are also included, although separate income and expenditure accounts are given, and the exact position of each fund and its investments is still shown separately, in the Assets side of the Balance Sheet.

The Trust Funds which the Society administers are now, for convenience, collated into one Balance Sheet, although separate Income and Expenditure Accounts are still shown.

2. *Revised Subscription Arrangements.* The period under review is the first year in which the Fellowship subscription has been reduced to two guineas. The Council was of the opinion that the adoption of this arrangement, whereby it was no longer obligatory for Fellows to pay for publications unless they wished to receive them, would not adversely affect the net financial position of the Society. Furthermore, it was hoped that the loss of Fellows by resignation would be reduced, and thus the subscription income of the Society might gradually increase. This in turn would cover further rises in costs or, alternatively, would help in any expansion of the Society's activities.

So far as can be judged on the basis of only one year's experience, it can be reported that the Council's hopes regarding the effect of the new arrangements on the finances of the Society have been realised. The total receipts from Fellows for subscriptions and publications amounted to £37,279 in 1954. In 1955 the income from Fellows amounted to £34,510, of which £17,019 was received by way of subscriptions, and a further £17,491 was received as payment for publications, thus showing a decrease of £2769. Against this decrease should be set a saving of not less than £1800 through the reduced circulation to Fellows of publications, and a further saving of some £1000 in administrative costs that arises from the closing of the Conjoint Chemical Office.

The General Purposes Account shows an excess of income over expenditure of £246 after £5,000 has been transferred to General Reserve. This is not unexpected in the first year of the new subscription arrangements now that income and expenditure relating to publications are separated from that attributable to other activities. The surplus should in part be offset against previous deficits or losses incurred by the depreciation in the value of investments. Moreover, some of this reserve will probably be required to meet capital expenditure which the Society is likely to incur over the next few years, and which should not be deferred. Whilst the surplus is likely to be considerably smaller in the future, and, indeed, may become a deficit if costs continue to rise faster than income, it does strengthen the Council's opinion that the present rate of annual subscription can, subject to factors outside the Society's control, be stabilized in an inflationary period. The Council, by practising all reasonable economies, and by maintaining an efficient administration, intends to avoid, so far as lies within its power, the necessity for any increase in the Fellows' subscription.

3. *Cost of Publications.* The Publications Account shows how large a proportion of the Society's resources is devoted to publications, and, especially, to the *Journal*.

Had it not been for the difficulties in the printing industry which have restricted the size of the *Journal*, the cost of this item would have been even higher and the Publications Account would not have shown an excess of income over expenditure. The number of papers awaiting publication has been increasing now for the past two years, and amounts to the equivalent of some 400—500 *Journal* pages, or £3500—£4500 in terms of publication costs. The Council hopes that the difficulties of production will be overcome, although it will inevitably take some time to eliminate entirely the arrears. The cost will, unfortunately, have to be met at the much increased prices now prevailing.

For several years now, and before the new subscription arrangements were introduced, individual Fellows have tended to discontinue subscriptions to the *Journal*, and to rely on copies from libraries. The trend still continues (see Table 10).

TABLE 10.
Circulation of the Journal.

	Nos. printed.*	Nos. circulated in year of publication.		
		Fellows.	Non-Fellows.	Exchanges.
1947	6425	4340	1357	80
1948	6300	4317	1547	80
1949	6800	4472	1627	80
1950	7000	4337	1684	80
1951	7000	4442	1989	80
1952	7500	4795	2095	80
1953	7000	3936	2273	88
1954	6900	3761	2359	90
1955	6400	3243	2521	90

* The difference between the number printed in any year and the number circulated in that year represents the stock available as replacements, or to supply the demand for back numbers.

The falling circulation of the *Journal* among Fellows has not materially affected the Society's finances, since Fellows can obtain copies at approximately the "run-on" cost of paper, printing, and distribution. The increased circulation to non-members has, on the other hand, been of considerable benefit. In spite of this increase, however, the Publications Account would have shown a deficit had it not been for a grant of £5500 received from the Chemical Council. The Council wishes to record its grateful thanks to the Chemical Council, and to industry for this assistance.

4. *Improvements at Burlington House and 9/10 Savile Row.* The cost of the improvements to the Library, and to the offices at 9/10 Savile Row for the administrative and editorial staff, is shown in the Accounts. The improvements to the Library were made possible by a grant of £10,000 from the Chemical Council. The Council has recorded its warm and appreciative thanks to the Chemical Council for this generous contribution.

5. *Investments.* Investments on General Purposes Account include £4305 19s. 4d. received in 1954 from the A. G. Perkin Bequest, invested in 1955, and a further investment of £1500 made on the Centenary Fund. These, and other smaller changes, are included in the Schedules at the end of the Accounts.

6. *Staff.* The Council has approved new salary scales for the Society's staff, which took effect on January 1st, 1956. These scales recognise the substantial rise in the cost of living that has taken place since the previous comprehensive review of salaries and salary scales.

The Staff Superannuation Scheme has also been reviewed, and new and improved arrangements have been introduced which will give considerably improved retirement benefits to the permanent staff of the Society at a very small extra cost.

VIII. REPRESENTATIVES OF THE SOCIETY ON OTHER BODIES.

In 1955 the Society was represented on various bodies by as follows :

"*Acta Metallurgica*" :

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

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 Biochemistry :

Professor F. Bergel, Professor M. Stacey.

British National Committee for Chemistry :

Sir Eric Rideal, Professor E. D. Hughes, Mr. M. W. Perrin.

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.	Glass Electrodes : Dr. D. J. G. Ives.
LBC/16/2.	Drafting Work on pH Meters : Dr. D. J. G. Ives.
LBC/17.	Laboratory 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 Paper : 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 Data : The Editor.
USM/1/8.	Glossary of Terms used in Nuclear Sciences : The Editor.
USM/2.	Abbreviations and Symbols : The Editor.
USM/2/2.	Abbreviations and Letter Symbols (Chemical Engineering and Applied Chemistry Sub-Committee) : The Editor.

Bureau of Abstracts. Continuing Committee :

Dr. G. M. Bennett, Professor H. Burton, Dr. G. M. Dyson, Mr. M. W. Perrin.

Chemical Council :

The Honorary Treasurer, Professor C. K. Ingold, Dr. L. E. Sutton, Professor W. Wardlaw.

City and Guilds of London Institute :

The President.

Faraday Society. Colloid and Biophysics Committee :

Dr. G. L. Riddell.

Joint Library Committee :

Professor R. M. Barrer, Professor D. H. R. Barton, Dr. L. C. Bateman, Professor F. Bergel, Professor M. J. S. Dewar, Professor M. B. Donald, Dr. J. Kenyon, Dame K. Lonsdale, Dr. A. Maccoll, Dr. H. T. Openshaw, Dr. J. W. Smith, Dr. L. E. Sutton, Professor R. L. Wain, Professor W. Wardlaw.

Lawes Agricultural Trust. Committee of Management :

Sir John Simonsen.

Parliamentary and Scientific Committee :

The President, The General Secretary.

Perkin Centenary Celebrations :

Main Committee : The President, Professor E. D. Hughes.

Executive Committee : Dr. M. A. T. Rogers.

Social Committee : The General Secretary.

Perkin Centenary Fund :

Board of Trustees : Mr. M. W. Perrin.

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.

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

Professor R. D. Haworth.

APPENDIX A.

MEETINGS HELD DURING 1955.

IN LONDON.

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

January 20th at the Imperial College of Science and Technology, *Tilden Lecture*, "The Rôle of the π -Electron in Aromatic Chemistry," by Professor H. C. Longuet-Higgins; February 3rd, *Meeting* for the reading of original papers; February 17th, *Meeting* for the reading of original papers; March 17th, *Pedler Lecture*, "Some Problems in the Chemistry of the Hemicelluloses," by Professor E. L. Hirst; May 5th, *Meeting* for the reading of original papers; June 2nd, *Centenary Lecture*, "Chemical Effects of Steric Strains," by Professor H. C. Brown; October 20th, at the Institution of Civil Engineers, *Centenary*

Lecture, "The Photosynthetic Carbon Cycle," by Professor M. Calvin; November 3rd, *Meeting* for the reading of original papers; November 17th, at the Imperial College of Science and Technology, *Tilden Lecture*, "Some Developments in the Study of Physical Adsorption," by Professor D. H. Everett; December 1st, at the Royal Institution, *Liversidge Lecture*, "Reactions of Radicals in Gaseous Systems," by Dr. E. W. R. Steacie; December 15th, *Meeting* for the reading of original papers.

OUTSIDE LONDON

Aberdeen. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, at Robert Gordon's Technical College, unless otherwise stated: January 13th, *Lecture*, "Application of Science in the Detection of Crime," by Dr. J. B. Firth; February 25th, *Lecture*, "Corrosion Processes: their Causes and Prevention," by Dr. F. Wormwell; March 17th, *Lecture*, "Fluorescence of Solutions," by Dr. E. J. Bowen; October 28th, at Marischal College, *Lecture*, "Electron-transfer Reactions," by Professor C. E. H. Bawn; November 24th, in the University Chemistry Department, Old Aberdeen, *Liversidge Lecture*, "Reactions of Radicals in Gaseous Systems," by Dr. E. W. R. Steacie; December 9th, at Marischal College, *Lecture*, "Some Chemical Aspects of Cell Structure," by Professor J. N. Davidson.

Birmingham. At the University: January 14th, joint meeting with Birmingham University Chemical Society, *Lecture*, "The Structures of Electron-deficient Substances," by Professor H. C. Longuet-Higgins; February 4th, *Official Meeting and Lecture*, "The Photochemistry of Polymethyl Vinyl Ketone," by Professor R. G. W. Norrish; March 4th, joint meeting with Birmingham University Chemical Society, *Lecture*, "Ionisation in Organic Chemistry," by Professor E. D. Hughes; October 14th, joint meeting with Birmingham University Chemical Society, *Lecture*, "New Aspects of Aromatic Character," by Professor Wilson Baker; October 24th, *Centenary Lecture*, "The Photosynthetic Carbon Cycle," by Professor M. Calvin; November 18th, joint meeting with Birmingham University Chemical Society, *Lecture*, "The Interpretation of Electromotive-force Measurements with Special Reference to the Gastric Mucosa," by Dr. A. G. Ogston.

Bristol. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry, at the University, unless otherwise stated: January 13th, *Lecture*, "Some Experiences of Food Legislation during the War," by Sir Harry Jephcott; January 27th, also joint with the Society for Analytical Chemistry, *Lecture*, "Recent Advances in the Bacteriological Examination of Water," by Dr. Windle Taylor; February 10th, *The Hugo Müller Lecture*, "Some Newer Aspects of the Organic Chemistry of Nitrogen," by Professor G. R. Clemo; February 17th, at The College of Technology, Gloucester, *Lecture*, "New By-products from Coal," by Dr. W. Idris Jones; March 3rd, also joint with the Institute of Fuel, *Lecture*, "The Fuel Scientist: Training and Using Britain's Greatest Asset," by Professor A. L. Roberts; March 17th, *Lecture*, "Some Recent Advances in Photography," by Dr. H. Baines; July 19th, also joint with the University Chemical Society, *Lecture*, "Organometallic Compounds of the Acetylenic Type," by Professor Dr. H. Hartmann; October 6th, *Lecture*, "The Impact of Nuclear Energy on Industry," by Dr. J. M. Fletcher; October 19th, at The Technical College, Gloucester, *Lecture*, "Some New Plastic Materials," by Dr. E. M. Evans; October 20th, *Lecture*, "Organic Inclusion Compounds and their Uses," by Professor Wilson Baker; October 27th, also joint with the University Chemical Society, *Lecture*, "Some Properties of Aqueous Hydrogen Fluoride Solutions," by Mr. R. P. Bell; November 3rd, *Lecture*, "New Aspects of the Chemistry of the Nitrogen Oxides," by Dr. C. C. Addison; November 10th, also joint with the University Chemical Society, *Lecture*, "The Problems Involved in Studying Fast Reactions," by Professor H. W. Melville; November 17th, *Lecture*, "Principles of Crystal Growth," by Professor F. C. Frank; November 24th, also joint with the University Chemical Society, *Lecture*, "The Scientific Examination of Paintings," by Dr. E. A. Werner; December 1st, also joint with the Institute of Metals, *Lecture*, "The Technology of Carbon and Graphite," by Mr. J. M. Hutcheon.

Cambridge. Joint meetings with the University Chemical Society, at the Chemical

Laboratory, Pembroke Street : January 21st, *Lecture*, "Recent Advances in Acetylene Chemistry," by Professor R. A. Raphael; January 28th, *Lecture*, "Topology and Chemistry," by Dr. A. F. Wells; February 18th, *Official Meeting and Lecture*, "The Physical Chemistry of Acetaldehyde Solutions," by Mr. R. P. Bell; May 11th, *Centenary Lecture*, "Chemical Effects of Steric Strain," by Professor H. C. Brown; October 21st, *Lecture*, "Homolytic Aromatic Substitution," by Professor D. H. Hey; November 4th, *Lecture*, "Synthetic Polypeptides," by Dr. C. H. Bamford; November 18th, *Lecture*, "Many-centre Bonds," by Professor H. C. Longuet-Higgins.

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 13th, *Lecture*, "Organic Inclusion Compounds," by Professor W. Baker; February 1st, also joint with the University Chemical Society, at the Biochemistry Lecture Theatre, Teviot Place, *Lecture*, "The Foundation of Tyrosine Melanin," by Professor G. R. Clemo; February 24th, *Lecture*, "Mechanics of Droplets and Bubbles in Diffusion Processes," by Professor F. H. Garner; March 10th, *Lecture*, "The Changing Face of the Gas Industry," by Dr. A. Marsden; October 6th, *Society of Chemical Industry Lister Memorial Lecture*, "The Chemistry and Functions of Vitamin B₁₂," by Dr. E. Lester Smith; October 20th, *Lecture*, "Some Fatty Acids of Recent Description," by Dr. F. D. Gunstone; November 10th, *Lecture*, "Hydrogen-transfer Reactions," by Professor E. A. Braude; December 8th, *Lecture*, "Some Aspects of Research in the Scottish Division of the National Coal Board," by Dr. E. A. C. Chamberlain.

Exeter. At the Washington Singer Laboratories, unless otherwise stated: February 8th, *Lecture*, "The Chemistry of Melanin," by Professor G. R. Clemo; May 6th, *Lecture*, "Acetylene-Allene Chemistry," by Professor E. R. H. Jones; July 13th—July 15th, *Official Meeting and Symposium*, "Recent Work on Naturally Occurring Nitrogen Heterocyclic Compounds" (contributions from the following were read and discussed: Professor A. Albert, Professor J. Baddiley, Dr. A. R. Battersby, Dr. N. B. Chapman, Dr. J. Harley-Mason, Professor R. D. Haworth, Dr. A. W. Johnson, Professor R. P. Linstead, Dr. J. D. Loudon, Dr. S. F. Mason, Dr. H. T. Openshaw, Dr. T. S. Stevens, Sir Alexander Todd, and Dr. M. Whalley), October 28th, *Lecture*, "How Free are Free Radicals?" by Professor D. W. G. Style; November 25th, *Lecture*, "Homolytic Substitution Reactions," by Professor D. H. Hey.

Glasgow. February 18th, at the Royal Technical College, Annual General Meeting of local Fellows followed by a *Meeting* for the reading of original papers; March 18th, at the University, *Lecture*, "The Shape of Molecules," by Dr. J. W. Linnett; October 28th, at the University, *Official Meeting and Centenary Lecture*, "The Photosynthetic Carbon Cycle," by Professor M. Calvin; November 18th, at the University, *Lecture*, "Solid Imperfections and Chemical Reactivity," by Dr. F. C. Tompkins.

Hull. At the University: January 27th, *Lecture*, "Some Modern Ideas of the Nature of the Covalent Bond," by Professor C. A. Coulson; February 10th, *Lecture*, "Chromatography," by Dr. T. I. Williams; March 3rd, *Lecture*, "Some Recent Progress in Natural-product Chemistry," by Professor D. H. R. Barton; November 10th, *Lecture*, "Fast Reactions," by Professor G. Porter; November 24th, joint meeting with the Royal Institute of Chemistry, *Lecture*, "Direct Hydroxylation of Organic Compounds," by Professor W. Bradley.

Irish Republic. February 9th, at Trinity College, Dublin, *Tilden Lecture*, "The Rôle of the π -Electron in Aromatic Chemistry," by Professor H. C. Longuet-Higgins; March 4th, joint meeting with the Werner Society at Trinity College, Dublin, *Lecture*, "Organic Inclusion Compounds," by Professor W. Baker; March 23rd, at University College, Dublin, *Lecture*, "Recent Advances in Acetylene Chemistry," by Professor R. A. Raphael; May 9th, joint meeting with the Institute of Chemistry of Ireland, the Royal Institute of Chemistry, the Society of Chemical Industry, and University College, Dublin, at University College, Dublin, *Lecture*, "The Nature of Adsorption Forces," by Professor H. C. de Boer; May 10th, May 13th, and May 16th, joint meetings with the Institute of Chemistry of Ireland, the Royal Institute of Chemistry, and the Society of Chemical Industry, held at University College, Dublin, University College, Cork, and University College, Galway,

respectively, *Lecture*, "The Fundamental Principles of Catalysts," by Professor H. C. de Boer; May 20th, joint meeting with the Werner Society at Trinity College, Dublin, *Lecture*, "Some Applications of Flash Photolysis," by Professor R. G. W. Norrish; October 28th, joint meeting with the Werner Society at Trinity College, Dublin, *Lecture*, "Phenylation," by Professor D. H. Hey; November 30th, at Trinity College, Dublin, *Lecture*, "Properties of Periodate-oxidised Polysaccharides," by Dr. V. C. Barry.

Leeds. At the University: January 17th, joint meeting with the Royal Institute of Chemistry, *Lecture*, "Progress towards Atomic Power," by Dr. R. Spence; February 8th, *Lecture*, "Complexones," by Professor G. Schwarzenbach; February 21st, *Royal Institute of Chemistry Lecture*, "New Lamps for Old in Analytical Chemistry," by Dr. C. L. Wilson; March 10th, joint meeting with the University Chemical Society, *Lecture*, "Aphid Colouring Matters," by Sir Alexander Todd; March 14th, *Royal Institute of Chemistry Lecture*, "The Biochemistry of the Marine Algæ," by Dr. F. N. Woodward; May 18th, *Official Meeting and Symposium*, "The Friedel-Crafts Reaction" (contributions from the following were read and discussed: Dr. G. Baddeley, Professor W. Bradley, Professor H. C. Brown, Dr. R. O. Colclough, Professor A. G. Evans, Professor D. D. Eley, Dr. F. Fairbrother, Dr. D. C. Pepper, Professor P. H. Plesch, Dr. E. Rothstein); May 19th, *Centenary Lecture*, "Chemical Effects of Steric Strains," by Professor H. C. Brown; October 13th, joint meeting with the Royal Institute of Chemistry, the Society of Chemical Industry, the British Association of Chemists, and the University Chemical Society, *Lecture*, "The Mechanism of the Liquid-phase Oxidation of Decane," by Dr. G. H. Twigg; October 31st, *Lecture*, "The Hydrogen-isotope Effect in Reaction Kinetics," by Mr. R. P. Bell; November 7th, *Royal Institute of Chemistry Lecture*, "Antibiotics—Past, Present, and Future," by Mr. A. L. Bacharach; November 17th, *Liversidge Lecture*, "Reactions of Radicals in Gaseous Systems," by Dr. E. W. R. Steacie; 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 27th, *Lecture*, "Structure and Properties of Synthetic Polypeptides," by Dr. C. H. Bamford; March 3rd, *Lecture*, "The Mode of Action of Pyridoxine," by Dr. H. M. Sinclair; October 13th, *Lecture*, "The Mechanism of the Liquid-phase Oxidation of Decane," by Dr. G. H. Twigg; November 10th, *Lecture*, "The Chromatography of Gases and Vapours," by Dr. F. H. Pollard.

Manchester. At the University, unless otherwise stated: January 13th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Colouring Matters of the Aphididae," by Sir Alexander Todd; February 17th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Immunochemistry," by Professor M. Stacey; March 10th, at the College of Technology, *Meeting* for the reading of original papers; April 21st, joint meeting with the Royal Institute of Chemistry, the Society of Chemical Industry, and the Institute of Petroleum, *Symposium*, "Organometallic Compounds," (contributions from the following were read and discussed: Dr. E. A. Braude, Dr. J. Chatt, Professor G. E. Coates, Dr. F. G. Mann, Professor K. Ziegler, and Dr. M. C. Whiting); May 26th, *Centenary Lecture*, "Chemical Effects of Steric Strains," by Professor H. C. Brown; October 5th, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Inorganic Metallurgical Aspects of Atomic Energy," by Mr. L. Rotheram; November 1st, *Centenary Lecture*, "The Photosynthetic Carbon Cycle," by Professor M. Calvin; November 17th, *Meeting* for the reading of original papers; December 1st, joint meeting with the Royal Institute of Chemistry and the Society of Chemical Industry, *Lecture*, "Recent Developments in Fungal Biochemistry," by Dr. J. H. Birkinshaw.

Newcastle and Durham. February 11th, at King's College, Newcastle upon Tyne, *Bedson Club Lecture*, "The Place of Theoretical Chemistry in Chemical Education," by Mr. R. P. Bell; February 14th, joint meeting with Durham Colleges Chemical Society, at the University, Durham, *Lecture*, "Some Naturally Occurring Polyacetylenes," by Professor B. Lythgoe; February 25th, at King's College, Newcastle upon Tyne, *Meeting* for the reading

of original papers; March 11th, at King's College, Newcastle upon Tyne, *Bedson Club Lecture*, "The Rapid Reaction of Hæmoglobin with Oxygen and Carbon Monoxide," by Professor F. J. W. Roughton; March 14th, joint meeting with Durham Colleges Chemical Society, at the University, Durham, *Lecture*, "New Developments in Analytical Chemistry," by Dr. R. Belcher; May 13th, at King's College, Newcastle upon Tyne, *Centenary Lecture*, "Chemical Effects of Steric Strains," by Professor H. C. Brown; October 17th, joint meeting with Durham Colleges Chemical Society, at the University, Durham, *Lecture*, "New Aspects of Aromatic Character," by Professor W. Baker; October 26th, at King's College, Newcastle upon Tyne, *Bedson Club Lecture*, "The Photosynthetic Carbon Cycle," by Professor M. Calvin; October 31st, joint meeting with the Durham Colleges Chemical Society, at the University, Durham, *Lecture*, "Recent Researches on the Metal Alkoxides," by Professor W. Wardlaw; November 4th, at King's College, Newcastle upon Tyne, *Meeting* for the reading of original papers; November 25th, at King's College, Newcastle upon Tyne, *Bedson Club Lecture*, "The Relation between Theory and Experiment in Physical Chemistry," by Professor E. A. Guggenheim; November 28th, joint meeting with the Durham Colleges Chemical Society, at the University, Durham, *Lecture*, "Some New Results Obtained by the Method of Flash Photolysis," by Professor R. G. W. Norrish.

Northern Ireland. Joint meetings with the Royal Institute of Chemistry and the Society of Chemical Industry at Queen's University, Belfast: January 25th, *Lecture*, "Modern Insecticides and their Uses," by Mr. Q. L. Abel; February 10th, *Tilden Lecture*, "The Rôle of the π -Electron in Aromatic Chemistry," by Professor H. C. Longuet-Higgins; February 22nd, *Lecture*, "The Immunochemistry of the *Pneumococcus* Polysaccharides," by Professor M. Stacey; March 10th, *Lecture*, "The Influence of Structure on Some Properties of Polymers," by Dr. R. J. W. Reynolds; April 26th, *Meeting* for the reading of original papers; September 6th, *Lecture*, "Changing Bread. Some Biochemical and Nutritional Considerations," by Dr. M. Pyke; October 20th, *Lecture*, "Silicones, Their Chemistry and Technology," by Dr. G. G. Freeman; November 22nd, *Lecture*, "Preparation and Use of Radioisotopes in Industry and Medicine," by Dr. G. B. Cook; December 5th, *Lecture*, "Recent Advances in the Vitamin D Field," by Professor B. Lythgoe.

North Wales. Joint meetings with the University College of North Wales Chemical Society, at the University College of North Wales, Bangor, unless otherwise stated: January 27th, *Lecture*, "Factors Involved in the Formation of Carbonium Ions," by Professor A. G. Evans; February 17th, joint meeting with the University College of Wales Chemical Society, at the Edward Davies Chemical Laboratories, Aberystwyth, *Lecture*, "Some Aspects of Polysaccharide Research," by Professor S. Peat; February 24th, *Pedler Lecture*, "Some Problems in the Chemistry of the Hemicelluloses," by Professor E. L. Hirst; November 10th, *Lecture*, "Some Experiences in an Industrial Research Laboratory," by Dr. M. A. T. Rogers.

Nottingham. Joint meetings with the University Chemical Society, at the University, unless otherwise stated: January 27th, *Lecture*, "Phenylation," by Professor D. H. Hey; February 10th, *Lecture*, "Melting and Crystal Structure," by Professor A. R. Ubbelohde; February 28th, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "The Kinetics of Halogenation Reactions," by Mr. R. P. Bell; October 17th, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "Hydrogen-transfer Reactions," by Professor E. A. Braude; November 3rd, joint meeting with Leicester University College Chemical Society, at University College, Leicester, *Lecture*, "Recent Advances in the Chemistry of the Adrenocortical Hormones," by Professor C. W. Shoppee; November 10th, *Lecture*, "New Aspects of Aromatic Character," by Professor Wilson Baker; December 1st, *Lecture*, "Recent Advances in the Physical Chemistry of Sulphur," by Professor G. Gee.

Oxford. Joint meetings with the Oxford University Alembic Club, at the Physical Chemistry Laboratory, South Parks Road: June 6th, *Official Meeting and Lecture*, "Some Analytical and Synthetical Studies of Natural Products," by Sir Robert Robinson; October 24th, *Lecture*, "The Structure of Vitamin B₁₂," by Mrs. D. M. Hodgkin; November 7th, *Lecture*, "Fluorocarbons—The Basis of a New Chemistry," by Dr. R. N. Haszeldine; November 28th, *Lecture*, "Why Polymerisation Occurs," by Professor F. S. Dainton.

St. Andrews and Dundee. January 28th, joint meeting with the University Chemical Society and the Royal Institute of Chemistry, at the University, St. Andrews, *Lecture*, "Recent Advances in Acetylene Chemistry," by Professor R. A. Raphael; February 11th, joint meeting with the University Chemical Society, at the University, St. Andrews, *Lecture*, "The Organic Chemistry of Phosphorus," by Professor H. N. Rydon; February 25th, joint meeting with the University Chemical Society, at the University, St. Andrews, *Lecture*, "Radiation Chemistry," by Professor F. S. Dainton; April 15th, joint meeting with the University Chemical Society, at the University, St. Andrews, *Lecture*, "Polymerisation of Vinyl Ethers," by Professor D. D. Eley; November 18th, joint meeting with the University Chemical Society, at St. Salvators College, St. Andrews, *Lecture*, "The Hydrogen-isotope Effect in Reaction Kinetics," by Mr. R. P. Bell; December 8th, at Queen's College, Dundee, *Lecture*, "Magnetism and the Structure of Inorganic Molecules," by Professor R. S. Nyholm.

Sheffield. At the University: January 27th, joint meeting with Sheffield University Chemical Society, *Lecture*, "Some Naturally Occurring Polyacetylenes," by Professor B. Lythgoe; March 3rd, joint meeting with Sheffield University Chemical Society, *Lecture*, "Structures and Properties of Clathrate Compounds," by Mr. H. M. Powell; May 23rd, joint meeting with Sheffield University Chemical Society, *Centenary Lecture*, "Some Chemical Effects of Steric Strains," by Professor H. C. Brown; October 27th, joint meeting with Sheffield University Chemical Society, *Lecture*, "Chemical Effects of Intramolecular Strains," by Dr. G. Baddeley; November 10th, joint meeting with the Royal Institute of Chemistry and Sheffield University Chemical Society, *Lecture*, "Melting and Crystal Structure," by Professor A. R. Ubbelohde; December 1st, joint meeting with Sheffield University Chemical Society, *Lecture*, "Directing Effects in Inorganic Substitution Reactions," by Dr. J. Chatt.

Southampton. At the University unless otherwise stated: January 14th, joint meeting with Portsmouth and District Chemical Society, at the College of Technology, Portsmouth, *Lecture*, "Fission Products," by Mr. P. E. Carter; February 4th, joint meeting with Southampton University Chemical Society, *Lecture*, "Recent Investigations in the Field of Vinyl Polymerisation," by Dr. C. H. Bamford; February 18th, joint meeting with Southampton University Chemical Society and the Royal Institute of Chemistry, *Lecture*, "Recent Work on Inclusion Compounds," by Professor Wilson Baker; February 25th, joint meeting with Southampton University Chemical Society, *Lecture*, "Mineral Analysis," by Professor L. S. Theobald; March 11th, joint meeting with Southampton University Chemical Society, *Lecture*, "Reactions in Liquid Dinitrogen Tetroxide," by Dr. C. C. Addison; May 6th, joint meeting with Southampton University Chemical Society, *Lecture*, "Kinetics of Some Organic Reactions," by Mr. R. P. Bell; October 14th, joint meeting with Southampton University Chemical Society and the Royal Institute of Chemistry, *Lecture*, "Recent Developments in Acetylene and Allene Chemistry," by Professor E. R. H. Jones; November 25th, joint meeting with Southampton University Chemical Society, *Lecture*, "Melting and Crystal Structure," by Professor A. R. Ubbelohde; December 1st, joint meeting with the Plastics Institute and the University of Southampton Chemical Society, *Lecture*, "Principles and Practice of Polymer Design," by Mr. R. B. Richards.

South Wales. January 24th, at University College, Cardiff, *Lecture*, "Some Recent Advances in Photochemistry," by Professor R. G. W. Norrish; February 4th, joint meeting with University College of Swansea Chemical Society, at University College, Swansea, *Lecture*, "The Adsorption of Vapours by Solids," by Professor D. H. Everett; February 7th, at University College, Cardiff, *Tilden Lecture*, "Molecular Rearrangements," by Professor M. J. S. Dewar; March 11th, joint meeting with the Royal Institute of Chemistry and the University College of Swansea Chemical Society, at University College, Swansea, *Lecture*, "Chemistry of Colchicine," by Dr. J. W. Cook; October 24th, at University College, Cardiff, *Lecture*, "Trapped Radicals in Polymerisation Reactions," by Dr. C. H. Bamford; November 4th, at University College, Swansea, *Lecture*, "The Physical Chemistry of Sulphur," by Professor G. Gee.

APPENDIX B.

**ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE
FOR THE YEAR 1955.**

The past year has witnessed some very considerable changes in the Library.

Early in June new premises became available in Savile Row suitable for conversion into a bookstore and publications stockroom, and during the summer closure some 10,000 volumes were transferred from Burlington House to this new store. The stock of the Society's publications was also transferred to this new store and in turn released space for another bookstore in Burlington House. Further space was obtained by the sale of some 2,000 volumes of periodicals deemed to contain little of interest to chemists. The stock of books throughout the building was then adjusted to make room for the expansion of periodicals and to make the library annexe available to readers. The overall effect is to provide additional storage for a few years.

While this movement of books was in progress the Library was completely redecorated and refurnished in an appropriate style with changes in lay-out to provide better display of periodicals, more table space per reader, a clearer floor area, and better working facilities for the staff. The work necessitated the movement of almost every one of the 60,000 volumes in the Library.

The transference of administrative staff to Savile Row released an office for the Librarian and his typist and also a room which has been converted to house the photocopying equipment.

The Library regulations have been reviewed and amended where necessary to bring them into line with modern practice and to improve the general administration of the Library.

The facilities offered by the Science Library and National Central Library are now available to readers, and much use has already been made of them.

Analysis.

	Attendances.	Books borrowed.	Additions.	
			Books	Pamphlets
1955*.....	7457	5854 (2630 by post)	209	35
1954	9370	7706 (3000 by post)	410	69

* In 1955 the Library was closed for six weeks. The numbers of volumes added in 1955 and 1954 are not strictly comparable as there is some doubt as to whether the methods by which the statistics were compiled were the same in the two years.

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

INCOME AND EXPENDITURE ACCOUNTS

1954	<i>Expenditure.</i>	1955
<u>GENERAL PURPOSES.</u>		
		£ £
Administration Expenses :		
Salaries, Superannuation, etc.		5,267
House Expenses, etc.		518
Stationery, Postages and Office Expenses		974
Miscellaneous		265
		7,024
Meetings		1,567
Local Representatives Expenses		1,068
Travelling Expenses		478
Capital improvements, Burlington House and Savile Row		11,811
Less Grant from Chemical Council		10,000
		1,811
Less Transfer to Publications Account... ..		1,356
		455
Transfers :		
Publications Account—		
Cost of free publications to Fellows under 27 years of age		1,691
Library Account :		
Capital Expenditure		2,601
Maintenance		1,133
Staff Pensions Fund		800
General Reserve		5,000
		11,225
Balance, being Excess of Income over Expenditure, carried to Balance Sheet... ..		246
		<u>£22,063</u>

STAFF PENSIONS FUND.

£		£
855	Pensions	942
6	Miscellaneous	9
83	Balance, being Excess of Income over Expenditure, carried to Balance Sheet	76
<u>£944</u>		<u>£1027</u>

FOR THE YEAR ENDED 31ST DECEMBER, 1955.

1954	<i>Income.</i>	1955	
		£	£
Fellows' Subscriptions :			
For 1955		17,019	
For 1954 and previous years		488	
		<u>17,507</u>	
<i>Add</i> Income Tax recoverable on Subscriptions under Covenant		1,063	
		<u>18,570</u>	18,570
Income from Investments			2,549
Miscellaneous			944

£22,063

£		£
826	Transfer from General Purposes Account and Refund of Premiums	834
99	Income from Investments	188
19	Deposit Interest	5
<u>£944</u>		<u>£1027</u>

INCOME AND EXPENDITURE ACCOUNTS

1954	<i>Expenditure.</i>	1955	
<u>PUBLICATIONS.</u>			
		£	£
	Journal of the Chemical Society :		
	Salaries and General Expenses	8,933	
	Printing and Paper... ..	33,683	
	Distribution	3,608	
		<hr/>	46,224
	Annual Reports on the Progress of Chemistry		3,602
	Quarterly Reviews		3,546
	Current Chemical Papers		4,320
	Transfer from General Purposes Account :		
	Capital improvements, Burlington House and Savile Row		1,356
	Balance, being Excess of Income over Expenditure, carried to Balance Sheet		1,220
			<hr/>
			<u>£60,268</u>

SPECIAL PUBLICATIONS FUND.

£		£
333	Cost of Publications	694
21	Miscellaneous	36
381	Balance, being Excess of Income over Expenditure, carried to Balance Sheet	68
		<hr/>
<u>£735</u>		<u>£798</u>

LIBRARY.

£	£		£	£
		Capital Expenditure :		
1,743		Books and Periodicals	2,112	
1,045		Binding	427	
39		Furniture	62	
	2,827		<hr/>	2,601
		Maintenance :		
4,459		Salaries, Superannuation, etc.	5,283	
614		Re-binding	214	
315		House Expenses, etc.	774	
245		Stationery, Postages and Office Expenses	428	
95		Miscellaneous	90	
	5,728		<hr/>	6,789
				<hr/>
	<u>£8,555</u>			<u>£9,390</u>

FOR THE YEAR ENDED 31ST DECEMBER, 1955.

1954	<i>Income.</i>	1955
		£ £
	Sales and Revenue from Advertisements :	
	Journal of the Chemical Society	37,516
	Annual Reports on the Progress of Chemistry	6,065
	Quarterly Reviews	4,886
	Current Chemical Papers	3,958
	Miscellaneous	284
		52,709
	Income from Investments	368
	Transfer from General Purposes Account :	
	Cost of free publications to Fellows under 27 years of age	1,691
	Grant : The Chemical Council	5,500
		£60,268
£		£
577	Sales of Publications and Royalties received	601
77	Income from Investments	146
81	Deposit Interest	51
		£798
£735		
£		£
2,827	Contribution for Capital Expenditure :	
	Transfer from General Purposes Account	2,601
	Contributions towards maintenance through the Chemical Council :	
1,011	Chemical Society	1,133
2,292	Royal Institute of Chemistry... ..	2,568
752	Society of Chemical Industry	843
275	Faraday Society	308
143	Society for Analytical Chemistry	160
273	Biochemical Society	306
822	Chemical Council (Direct Grant)	1,311
		6,629
5,568	Contributions from other sources :	
100	Association of British Chemical Manufacturers	100
50	Institute of Brewing	50
10	Society of Dyers and Colourists	10
		6,789
5,728		
£8,555		£9,390

GENERAL BALANCE SHEET—

<i>Liabilities.</i>		1955	
	£	£	£
Sundry Creditors			13,836
Receipts in Advance :			
Fellows' Subscriptions		8,693	
Publications Sales		18,111	
		—————	26,804
General Reserve		24,339	
Add Transfer from General Purposes Income and Expenditure Account		5,000	
		—————	29,339
Life Composition Fees—			
Balance at 1st January, 1955		5,514	
Add Receipts during 1955		325	
		—————	5,839
Special Funds :			
Publications		10,979	
Special Publications—			
Balance at 1st January, 1955	6,570		
Add Excess of Income over Expenditure for the year	68		
	—————	6,638	
Staff Pensions—			
Balance at 1st January, 1955	5,407		
Add Profit on Change of Investments	8		
Excess of Income over Expenditure for the year	76		
	—————	5,491	
		—————	23,108
Accumulated Fund :			
Balance at 1st January, 1955		30,262	
Add Sale of Surplus Library Books		4,185	
Bureau of Abstracts—			
Provision not required	2,000		
Refund on Liquidation	582		
	—————	2,582	
Excess of Income over Expenditure for the year—			
General Purposes	246		
Publications	1,220		
	—————	1,466	
		—————	38,495
			—————
			<u>£137,421</u>

We have examined the General Balance Sheet, the Trust and Lecture Fund Balance Sheet Society, and certify them to be in accordance therewith and, in our opinion, correct. We have

FINSBURY CIRCUS HOUSE,
BLOMFIELD STREET, E.C.2
15th MARCH, 1956.

31ST DECEMBER, 1955.

<i>Assets.</i>	£	1955 £	£
Investments as per Schedule at cost or value when acquired :			
General Reserve		17,822	
Special Funds—			
Publications	10,979		
Special Publications	4,011		
Staff Pensions	5,176		
	20,166		
General Purposes		43,487	
		81,475	
Sundry Debtors			8,078
Stock of Paper and Wrappers			6,745
Treasury Bills at cost			24,752
Balances at Bank (including Deposit) and Cash in hand			16,371

£137,421

MICHAEL W. PERRIN, *Honorary Treasurer.*

and accompanying Income and Expenditure Accounts with the Books and Vouchers of the also verified the Balances at the Bankers and Investments.

W. B. KEEN & CO.
Chartered Accountants.

TRUST ANDINCOME AND EXPENDITURE ACCOUNTS

1954	<i>Expenditure.</i>	1955
<u>CENTENARY FUND.</u>		
£		£
549	Expenses of Lecturers & Delegates	1,270
44	Miscellaneous	46
286	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	—
<u>£879</u>		<u>£1,316</u>

CORDAY-MORGAN MEDAL AND PRIZE FUND.

£		£
158	Prize	210
6	Medal	10
30	Miscellaneous	27
113	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	62
<u>£307</u>		<u>£309</u>

CORDAY-MORGAN MEMORIAL FUND.

£		£
400	Grant to the Corday-Morgan Memorial Fund Executive	400
6	Memorial Expenses (Clause 12 of the Will)	9
26	Miscellaneous	27
94	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	113
<u>£526</u>		<u>£549</u>

FARADAY LECTURE FUND.

£		£
1	Miscellaneous	1
14	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	16
<u>£15</u>		<u>£17</u>

ROBERT JOHN FLINTOFF TRUST.

£		£
75	Honorarium	—
3	Medal	—
2	Miscellaneous	2
—	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	33
<u>£80</u>		<u>£35</u>

EDWARD FRANK HARRISON MEMORIAL TRUST.

£		£
105	Prize	—
18	Plaque	—
2	Miscellaneous	2
—	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	45
<u>£125</u>		<u>£47</u>

LECTURE FUNDS.

FOR THE YEAR ENDED 31ST DECEMBER, 1955.

1954	<i>Income.</i>	1955
<u>£</u> 879	Income from Investments	<u>£</u> 932
—	Balance, being Excess of Expenditure over Income, carried to Balance Sheet...	384
<u>£</u> <u>879</u>		<u>£</u> <u>1316</u>
<u>£</u> 306	Income from Investments	<u>£</u> 309
1	Deposit Interest	—
<u>£</u> <u>307</u>		<u>£</u> <u>309</u>
<u>£</u> 526	Income from Investments	<u>£</u> 549
<u>£</u> <u>526</u>		<u>£</u> <u>549</u>
<u>£</u> 15	Income from Investment	<u>£</u> 17
<u>£</u> <u>15</u>		<u>£</u> <u>17</u>
<u>£</u> 35	Income from Investments	<u>£</u> 35
45	Balance, being Excess of Expenditure over Income, carried to Balance Sheet...	—
<u>£</u> <u>80</u>		<u>£</u> <u>35</u>
<u>£</u> 47	Income from Investments... .. .	<u>£</u> 47
78	Balance, being Excess of Expenditure over Income, carried to Balance Sheet...	—
<u>£</u> <u>125</u>		<u>£</u> <u>47</u>

INCOME AND EXPENDITURE ACCOUNTS

1954	<i>Expenditure.</i>	1955
<u>RESEARCH FUND.</u>		
£		£
744	Grants awarded	668
21	Honarium, Hugo Müller Lecture	—
—	Honarium, Longstaff Medallist	20
94	Miscellaneous	67
—	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	120
<u>£859</u>		<u>£875</u>

SPECIAL LECTURES FUND.

£		£
26	Honoraria	52
3	Miscellaneous	3
21	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	—
<u>£50</u>		<u>£55</u>

TILDEN LECTURE FUND.

£		£
16	Honoraria	31
21	Lecture Expenses	18
3	Miscellaneous	4
32	Balance, being Excess of Income over Expenditure, carried to Balance Sheet...	24
<u>£72</u>		<u>£77</u>

FOR THE YEAR ENDED 31ST DECEMBER, 1955.

1954	<i>Income.</i>	1955
£ 750	Income from Investments	£ 750
3	Deposit Interest	7
63	Grants repaid or not claimed	107
—	Miscellaneous	11
43	Balance, being Excess of Expenditure over Income, carried to Balance Sheet...	—
<u>£859</u>		<u>£875</u>

£ 50	Income from Investment	£ 50
—	Balance, being Excess of Expenditure over Income, carried to Balance Sheet...	5
<u>£50</u>		<u>£55</u>

£ 71	Income from Investments... ..	£ 77
1	Deposit Interest	—
<u>£72</u>		<u>£77</u>

TRUST AND

BALANCE SHEET—

1954		<i>Liabilities.</i>	1955	
£	£		£	£
	1,382	Sundry Creditors		1,003
		Centenary Fund :		
		Capital Account—		
28,076		Balance at 1st January, 1955	29,106	
1,030		Add Contributions for the year	1,026	
	29,106			30,132
		Income Account—		
117		Balance at 1st January, 1955	403	
—		Deduct Excess of Expenditure over Income for the year	384	
286		Add Excess of Income over Expenditure for the year	—	
	403			19
		Corday-Morgan Medal and Prize Fund :		30,151
		Capital Account—		
5,885		Balance at 1st January, 1955	5,898	
—		Add From Public Trustee	44	
13		Balance of Bonus Issue of Stock	1	
	5,898			5,943
		Income Account—		
1,599		Balance at 1st January, 1955	1,712	
113		Add Excess of Income over Expenditure for the year	62	
	1,712			1,774
		Corday-Morgan Memorial Fund :		7,717
		Capital Account—		
10,092		Balance at 1st January, 1955	10,104	
12		Add Profit on Change of Investments	7	
—		From Public Trustee	77	
	10,104			10,188
		Income Account—		
2,778		Balance at 1st January, 1955	2,872	
94		Add Excess of Income over Expenditure for the year	113	
	2,872			2,985
		Faraday Lecture Fund :		13,173
487		Balance at 1st January, 1955	501	
14		Add Excess of Income over Expenditure for the year...	16	
	501			517
		Robert John Flintoff Trust :		
1,111		Balance at 1st January, 1955	1,066	
—		Add Excess of Income over Expenditure for the year...	33	
45		Deduct Excess of Expenditure over Income for the year	—	
	1,066			1,099
		Edward Frank Harrison Memorial Trust :		
1,204		Balance at 1st January, 1955	1,126	
—		Add Excess of Income over Expenditure for the year...	45	
78		Deduct Excess of Expenditure over Income for the year	—	
	1,126			1,171
		Research Fund :		
23,982		Balance at 1st January, 1955	23,939	
—		Add Excess of Income over Expenditure for the year...	120	
43		Deduct Excess of Expenditure over Income for the year	—	
	23,939			24,059
		Special Lectures Fund :		
1,724		Balance at 1st January, 1955	1,745	
—		Deduct Excess of Expenditure over Income for the year	5	
21		Add Excess of Income over Expenditure for the year...	—	
	1,745			1,740
		Tilden Lecture Fund :		
2,060		Balance at 1st January, 1955	2,092	
32		Add Excess of Income over Expenditure for the year...	24	
	2,092			2,116
	<u>£81,946</u>			<u>£82,746</u>

LECTURE FUNDS.

31ST DECEMBER, 1955.

1954		<i>Assets.</i>	1955	
£	£		£	£
	1,550	Sundry Debtors		1,288
		Investments as per Schedule at cost or value when acquired :		
27,698		Centenary Fund	29,198	
7,371		Corday-Morgan Medal and Prize Fund	7,371	
12,239		Corday-Morgan Memorial Fund	12,239	
469		Faraday Lecture Fund	469	
1,000		Robert John Flintoff Trust	1,000	
1,102		Edward Frank Harrison Memorial Trust	1,101	
23,923		Research Fund	23,923	
1,615		Special Lectures Fund	1,615	
1,979		Tilden Lecture Fund	1,979	
<hr/>	77,396		<hr/>	78,895
	3,000	Balances at Bank (including Deposit)		2,563

£81,946

£82,746

SCHEDULE OF INVESTMENTS,

						<u>GENERAL</u>	
<i>Nominal Details.</i>				<i>Cost or Value when Acquired.</i>			
				£	£	£	
<u>GENERAL RESERVE.</u>							
£1,500	0s.	0d.	3%	Savings Bonds, 1955/65	...	1,489	
£1,250	0s.	0d.	3%	Funding Stock, 1959/69	...	1,218	
£1,165	0s.	0d.	2½%	Funding Stock, 1956/61	...	1,169	
£1,800	0s.	0d.	3½%	Defence Bonds (Conversion Issue)	...	1,789	
£1,000	0s.	0d.	3%	Sheffield Corporation Stock, 1967/69	...	963	
£2,582	10s.	9d.	3%	Liverpool Corporation Stock, 1955/58	...	2,647	
£1,500	0s.	0d.	3%	Ceylon Stock, 1959/64...	...	1,439	
£1,000	0s.	0d.	3½%	Agricultural Mortgage Corporation, Ltd., Deb. Stock, 1961/63	...	1,020	
£1,000	0s.	0d.	3½%	Covent Garden Properties, Ltd., Red. Deb. Stock, 1968	...	951	
£1,000	0s.	0d.	4%	Cable and Wireless (Holding), Ltd., 10 year Red. Unsec. Stock, 1960	...	1,015	
£1,100	0s.	0d.	4½%	Nelson Financial Trust, Ltd., Deb. Stock, 1970	...	982	
£1,000	0s.	0d.	4%	Dominion and General Trust, Ltd., Red. Deb. Stock, 1959/64	...	987	
£1,000	0s.	0d.	4½%	Rugby Portland Cement Co., Ltd., Unsec. Stock, 1957/62	...	1,040	
£1,000	0s.	0d.	5½%	Clan Line Steamers, Ltd., Cum. Red. 1st "B" Pref. Stock	...	1,113	
(Market Value £16,080)							17,822
<u>SPECIAL FUNDS.</u>							
<u>PUBLICATIONS.</u>							
£2,260	19s.	9d.	3½%	Conversion Stock, 1961, or after	...	1,567	
£1,000	0s.	0d.	3%	Savings Bonds, 1955/65	...	1,000	
£2,261	1s.	11d.	3%	Savings Bonds, 1960/70	...	2,276	
£2,175	13s.	4d.	3%	British Transport Guaranteed Stock, 1978/88	...	1,929	
£2,000	0s.	0d.	3%	British Electricity Guaranteed Stock, 1968/73	...	2,002	
£1,200	0s.	0d.	3%	Commonwealth of Australia Registered Stock, 1964/66	...	1,205	
£982	12s.	0d.	3%	Southern Rhodesia Stock, 1971/73	...	1,000	
(Market Value £9,421)							10,979
<u>SPECIAL PUBLICATIONS.</u>							
£745	9s.	3d.	3½%	Conversion Stock, 1961, or after	...	569	
£746	1s.	0d.	3%	British Transport Guaranteed Stock, 1978/88	...	720	
£750	0s.	0d.	3%	British Electricity Guaranteed Stock, 1968/73	...	751	
£1,000	0s.	0d.	3½%	London County Consolidated Stock, 1968/73	...	997	
£1,000	0s.	0d.	4%	Government of the Fed. of Rhodesia and Nyasaland Stock, 1972/74	...	974	
(Market Value £3,432)							4,011
<u>STAFF PENSIONS.</u>							
£119	0s.	1d.	3½%	Conversion Stock, 1961, or after	...	93	
£170	0s.	0d.	3%	Savings Bonds, 1955/65	...	170	
£1,000	0s.	0d.	3½%	Defence Bonds	...	1,000	
£1,505	0s.	0d.	3½%	Defence Bonds (Conversion Issue)	...	1,496	
£1,500	0s.	0d.	3%	Sheffield Corporation, Red. Deb. Stock, 1967/69	...	1,442	
£1,000	0s.	0d.	3½%	Southern Rhodesia Stock, 1955/65	...	975	
(Market Value £4,829)							5,176
							20,166
Carried forward							£37,988

AT 31ST DECEMBER, 1955.

FUNDS.

		<i>Nominal Details.</i>		<i>Cost or Value when Acquired.</i>	
				£	£
		Brought forward			£37,988
<u>GENERAL PURPOSES.</u>					
£2,609 14s. 4d.	31½%	Conversion Stock, 1961, or after	...	2,045	
£2,000 0s. 0d.	3%	Savings Bonds, 1965/75	...	2,006	
£1,000 0s. 0d.	3%	Funding Stock, 1959/69	...	973	
£200 0s. 0d.	3½%	Defence Bonds (Conversion Issue)	...	199	
£1,000 0s. 0d.	3½%	Defence Bonds	...	1,000	
£4,747 4s. 6d.	3%	British Transport Guaranteed Stock, 1978/88	...	5,705	
£2,546 1s. 4d.	3%	British Electricity Guaranteed Stock, 1968/73	...	2,549	
£2,053 7s. 5d.	4%	Consolidated Stock, 1957, or after	...	1,978	
£2,425 8s. 9d.	3%	Commonwealth of Australia Registered Stock, 1964/66	...	2,435	
£A3,000 0s. 0d.	3½%	Commonwealth of Australia Treasury Bonds, 1961/64	...	2,553	
£1,000 0s. 0d.	4%	Canadian Pacific Railway Perp. Deb. Stock	...	838	
£766 0s. 0d.	3½%	London Trust Co., Ltd., Red. Deb. Stock	...	576	
£1,000 0s. 0d.	4%	Rolls-Royce, Ltd., Red. Deb. Stock, 1974/84	...	1,007	
£925 0s. 0d.	4%	Olympia, Ltd., 1st Mort. Red. Deb. Stock	...	853	
£1,000 0s. 0d.	5½%	Wankie Colliery Co., Ltd., Mort. Deb. Stock	...	1,149	
800	6%	Rotary Hoes, Ltd., Red. Cum. Pref. £1 Shares	...	840	
750	7½%	Scottish and Mercantile Investment Co., Ltd., Cum. Pref. £1 Shares	...	940	
£500 0s. 0d.	8%	British Petroleum Co., Ltd., Cum. First Pref. Stock	...	779	
1,000	5%	Bell London & Provincial Props. Ltd., Cum. Pref. £1 Shares	...	884	
900	6½%	J. & N. Phillips & Co., Ltd., Cum. Pref. £1 Shares	...	930	
1,000	5%	Geo. Sandeman & Sons, Ltd., Cum. Pref. £1 Shares	...	938	
£1,000 0s. 0d.	4½%	London Midland Associated Properties, Ltd., Cum. Pref. Stock	...	775	
160		Allen & Hanburys, Ltd., Ord. £1 Shares	...	521	
£440 0s. 0d.		Cable & Wireless (Holding), Ltd., Ord. Stock	...	549	
£50 0s. 0d.		Commercial Union Assurance Co., Ltd., Stock	...	581	
£300 0s. 0d.		Goodlass Wall & Lead Industries, Ltd., Ord. Stock	...	497	
£435 0s. 0d.		Leyland Motors, Ltd., Ord. Stock	...	702	
£180 0s. 0d.		Shell Transport and Trading Co., Ltd., Ord. Stock	...	666	
£640 0s. 0d.		Peninsular and Oriental Steam Navigation Co., Ltd., Def. Stock	...	504	
£400 0s. 0d.		Tube Investments, Ltd., Ord. Stock	...	926	
1,500		Home and Colonial Stores, Ltd., Ord. 6s. 8d. Shares	...	794	
£396 0s. 0d.		British Insulated Callender's Cables, Ltd., Ord. Stock	...	866	
500		Trust Houses, Ltd., Ord. £1 Shares	...	700	
£480 0s. 0d.		Charterhouse Investment Trust, Ltd., Ord. Stock	...	847	
600		Consolidated Zinc Corporation, Ltd., Ord. £1 Shares	...	940	
£300 0s. 0d.		Smiths Stamping Works (Coventry), Ltd., Ord. Stock	...	889	
£275 0s. 0d.		West of England Sack Contractors, Ltd., Ord. Stock	...	768	
1,000		John Shaw and Sons (Wolverhampton), Ltd., 5s. Shares	...	785	
(Market Value £41,682)				43,487	
				<u>£81,475</u>	

SCHEDULE OF INVESTMENTS,

TRUST AND

			<i>Nominal Details.</i>		<i>Cost or Value when Acquired.</i>	
				£	£	
<u>CENTENARY FUND.</u>						
£2,637	10s.	6d.	3½%	Conversion Stock, 1961, or after	2,300	
£2,477	13s.	11d.	3%	Savings Bonds, 1955/65	2,492	
£2,500	0s.	0d.	3%	Savings Bonds, 1960/70	2,534	
£2,705	18s.	7d.	2½%	Savings Bonds, 1964/67	2,500	
£2,279	13s.	0d.	3%	British Transport Guaranteed Stock, 1978/88 ...	2,237	
£2,500	0s.	0d.	3%	British Electricity Guaranteed Stock, 1968/73 ...	2,499	
£4,933	15s.	11d.	4%	Consolidated Stock, 1957, or after	4,500	
£2,302	19s.	6d.	3½%	Agricultural Mortgage Corporation, Ltd., Deb. Stock, 1975/78	2,000	
£1,540	2s.	7d.	4½%	Glasgow Corporation Stock, 1966/68	1,500	
£1,970	1s.	0d.	3%	New Zealand Stock, 1973/77	2,000	
£1,716	15s.	2d.	3½%	Northern Ireland Stock, 1969/71	1,700	
£A3,500	0s.	0d.	3½%	Commonwealth of Australia Treasury Bonds, 1961/64	2,936	
(Market Value £24,971)						29,198
<u>CORDAY-MORGAN MEDAL AND PRIZE FUND.</u>						
£1,951	8s.	2d.	3½%	War Stock, 1952, or after	1,826	
£635	3s.	10d.	3%	British Transport Guaranteed Stock, 1978/88 ...	575	
£640	15s.	5d.	4%	Consolidated Stock, 1957, or after	648	
£774	6s.	3d.	3%	British Guiana Government Stock, 1975/80 ...	690	
£137	10s.	0d.	3%	Federated Malay States Government Stock, 1960/70	120	
£137	10s.	0d.	3½%	Bournemouth Corporation Red. Stock, 1958/62 ...	134	
£300	0s.	0d.	3½%	Hertfordshire County Red. Stock, 1954/59	298	
£134	0s.	0d.		Barclays Bank (D. C. & O.), "A" Ord. Stock ...	201	
£258	0s.	0d.		Mitchells & Butlers, Ltd., Ord. Stock	714	
£206	0s.	0d.		Watney Combe Reid & Co., Ltd., Def. Ord. Stock	597	
£83	0s.	0d.		Imperial Tobacco Co. (G.B. & I.) Ltd., Ord. Stock	263	
£240	0s.	0d.		Cardinal Investment Trust, Ltd., Def. Stock ...	291	
£104	0s.	0d.		Commercial Union Assurance Co., Ltd., Stock ...	1,014	
(Market Value £7,603)						7,371
<u>CORDAY-MORGAN MEMORIAL FUND.</u>						
£1,530	2s.	5d.	3½%	Conversion Stock, 1961, or after	1,426	
£1,973	16s.	11d.	3½%	War Stock, 1952, or after	1,880	
£477	1s.	10d.	3%	British Electricity Guaranteed Stock, 1968/73 ...	451	
£1,062	10s.	11d.	3%	British Gas Guaranteed Stock, 1990/95	894	
£413	13s.	7d.	4%	Consolidated Stock, 1957	413	
£217	12s.	6d.	3%	London County Consolidated Stock, 1962/67 ...	208	
£1,035	0s.	7d.	3%	Redemption Stock, 1986/96	929	
£137	10s.	0d.	4½%	Kenya Government Stock, 1961/71	149	
£300	0s.	0d.	4½%	New Zealand Government Stock, 1970/73	299	
£1,000	0s.	0d.	4%	South Staffordshire Waterworks Red. Pref. Stock, 1971	1,047	
£300	0s.	0d.	3½%	Hull Corporation Red. Stock, 1973/75	304	
£108	0s.	0d.		Barclays Bank, Ltd., "B" Ord. Stock	237	
£309	0s.	0d.		Benskins Watford Brewery, Ltd., Ord. Stock ...	685	
£206	0s.	0d.		H. & G. Simmonds, Ltd., Ord. Stock	824	
£160	0s.	0d.		Imperial Tobacco Co. (G.B. & I.) Ltd., Ord. Stock	506	
£108	0s.	0d.		Thomas Tilling, Ltd., Ord. Stock	107	
£340	0s.	0d.	4½%	Alliance Trust, Ltd., Deb. Stock, 1956	344	
£69	0s.	0d.		London & Lancashire Insurance Co., Ltd., Ord. Stock	448	
68				Phoenix Assurance Co., Ltd., Ord. £1 Shares ...	1,088	
(Market Value £11,448)						12,239
Carried forward						£48,808

AT 31ST DECEMBER, 1955.

LECTURE FUNDS.

		<i>Nominal Details.</i>		<i>Cost or Value when Acquired.</i>	
				£	£
		Brought forward			48,808
<u>FARADAY LECTURE FUND.</u>					
£473	8s. 9d.	3½%	Conversion Stock, 1961, or after		469
			(Market Value £362)		
<u>ROBERT JOHN FLINTOFF TRUST.</u>					
£523	2s. 2d.	3½%	Conversion Stock, 1961, or after	500	
£545	19s. 4d.	3%	British Transport Guaranteed Stock, 1978/88 ...	500	
			(Market Value £801)	—————	1,000
<u>EDWARD FRANK HARRISON MEMORIAL TRUST.</u>					
£61	15s. 8d.	3½%	Conversion Stock, 1961, or after	50	
£1,489	10s. 6d.	3%	British Transport Guaranteed Stock, 1978/88 ...	1,051	
			(Market Value £1,142)	—————	1,101
<u>RESEARCH FUND.</u>					
£4,177	16s. 1d.	3½%	Conversion Stock, 1961, or after	3,626	
£500	0s. 0d.	3%	Defence Bonds, 4th issue	500	
£1,835	0s. 0d.	2½%	Funding Stock, 1956/61	1,835	
£1,500	0s. 0d.	3%	Savings Bonds, 1955/65	1,515	
£4,000	0s. 0d.	3%	Savings Bonds, 1960/70	4,060	
£3,755	2s. 1d.	3%	British Transport Guaranteed Stock, 1978/88 ...	3,568	
£3,719	8s. 2d.	3%	British Electricity Guaranteed Stock, 1968/73 ...	3,724	
£4,000	0s. 0d.	3%	Commonwealth of Australia Registered Stock, 1964/66	4,015	
£1,116	7s. 0d.	3%	New Zealand Stock, 1973/77	1,080	
			(Market Value £19,872)	—————	23,923
<u>SPECIAL LECTURES FUND.</u>					
£1,669	17s. 3d.	3%	British Transport Guaranteed Stock, 1978/88 ...		1,615
			(Market Value £1,227)		
<u>TILDEN LECTURE FUND.</u>					
£419	4s. 10d.	3%	Funding Stock, 1959/69	387	
£792	10s. 8d.	3%	British Transport Guaranteed Stock, 1978/88 ...	725	
186			National Provincial Bank Ltd. "B" Shares £5 each, £1 paid	679	
£220	0s. 0d.	3%	Metropolitan Water Board (Kent Water Works) Deb. Stock	188	
			(Market Value £1,715)	—————	1,979
					<u>£78,895</u>