

## ONE HUNDRED AND FIFTH ANNUAL GENERAL MEETING.

The One Hundred and Fifth Annual General Meeting of the Chemical Society was held in the Chemistry Lecture Theatre of the University of Birmingham, Edgbaston, Birmingham, the President, Professor W. N. Haworth, D.Sc., F.R.S., in the Chair.

The notice convening the meeting was read.

In presenting the Report of Council for 1945, copies of which were available, Dr. G. M. Bennett emphasized the great services rendered to the Society by the late Editor, Dr. Clarence Smith. The Council had been very fortunate in securing Dr. D. C. Martin and Dr. J. E. Driver as their two most important permanent officials, namely as General Secretary and as Editor respectively, and both of them had begun their work very successfully.

In spite of slightly increased supplies of paper for the *Journal* papers were now being received faster than they could be published.

He referred to the renewed activity of the Publication Committee and to important improvements in the Library initiated by the President, and finally he paid tribute to the loyal work of the permanent staff of the Society.

In dealing with the Accounts for 1945 the Treasurer stated that they showed that it had been another very satisfactory year and compared favourably with 1944. He pointed out, however, that with the increase in the paper ration it was hoped to obtain, and with the great increase in the number of papers submitted, the cost of publication in 1947 would be double that incurred in 1945. This together with the increase in the cost of administration would result in a deficit of about £5000. At this rate the reserve fund accumulated during the war years would be exhausted in about three years. In these circumstances and in view of the general rise in printing costs, salaries, etc., it seemed desirable to consider whether the Annual Subscription should remain unchanged. He suggested that an increase of 10/- in the annual subscription would bring in about £3000 per annum which would help to meet the deficit foreshadowed.

In proposing the adoption of the Report of Council and the Statement of Accounts and Balance Sheets for 1945, Dr. F. H. Carr stated that although the Society had emerged from the war period in a very healthy financial condition this was no time for complacency and much work lay before the Society if it were to maintain its lead in furthering the promotion of chemistry. He hoped that the new knowledge gained during the war under conditions of secrecy would soon be published. To do these things the Fellowship must be greatly increased and more funds would be required. The proposal was seconded by Dr. Brynmor Jones, who expressed pleasure at the way in which the Society had renewed its contacts with sister societies overseas, and elected distinguished overseas chemists to Honorary Fellowship. He also congratulated the Society on the increase of meetings outside London during 1945 and expressed appreciation of the readiness of the Officers to hold official meetings in the provinces. The Report was adopted.

It was declared that Professor C. N. Hinshelwood had been elected President of the Society. It was also declared that Professor D. H. Hey and Dr. J. L. Simonsen had been elected Honorary Secretaries, that Dr. D. W. Hill, Dr. A. McGookin and Professor M. Polanyi had been elected as Elected Ordinary Members of Council for Constituency III and that Professor H. W. Melville had been elected as Elected Ordinary Member of Council for Constituency V.

The report of the Scrutators on the ballot for Vice-Presidents who have not filled the office of President and for Elected Ordinary Members of Council for Constituency I was presented and it was declared that the following had been elected :—

*Vice-Presidents who have not filled the office of President :*

Dr. R. P. Linstead,  
Professor S. Sugden.

*Elected Ordinary Members of Council, Constituency I :*

Dr. J. F. J. Dippy,  
Dr. S. H. Harper,  
Dr. F. G. Mann,  
Dr. C. W. Shoppee.

A vote of thanks to the Vice-Presidents, Treasurer, Honorary Secretaries, Council and Committees for their services during the past year proposed by Professor T. S. Wheeler and seconded by Dr. L. Bircumshaw, both of whom paid special tribute to Dr. G. M. Bennett, who retires after more than

six years' service in the office of Honorary Secretary, was carried. Dr. Bennett made suitable acknowledgment.

On the motion of Dr. M. Stacey, seconded by Dr. J. D. M. Ross, Messrs. W. B. Keen and Company were elected Auditors to audit the accounts for 1946.

The meeting was then adjourned.

A reception and luncheon, at which Fellows were the guests of The University of Birmingham, was held in the Great Hall of the University at 12.45 p.m. The pro-Chancellor of the University (Mr. E. P. Beale) presided at the luncheon which was attended by 160 persons. The toast of "The Chemical Society" was proposed by the Lord Mayor of Birmingham (Alderman A. S. Giles). In his reply the President stressed the importance of the dissemination of new knowledge in chemistry by the Society by publication, discussions, etc., as it is on this new knowledge that industrial development and expansion depends. In this connection he made particular reference to the proposed new quarterly publication of reviews by the Society. He also referred to the forthcoming Centenary Celebrations of the Society. Professor C. N. Hinshelwood in proposing the toast "The University of Birmingham" warmly thanked the University for the kind hospitality shown to the Society and the pro-Chancellor replied.

The meeting was resumed at 3 p.m.

The President made a presentation to Mr. S. E. Carr. This consisted of a cheque together with a book of autographs of those Fellows and friends who had contributed to the presentation. The President paid a warm tribute to Mr. Carr, who had served the Society as a permanent official for nearly 43 years. He expressed deep appreciation for the unfailing courtesy and charm of manner with which Mr. Carr had discharged his duties and complimented him on the efficiency he had displayed during his long service. In his reply Mr. Carr told of the way his appointment had been made and referred to the kind presentation which had been made to him some nineteen years ago by Fellows after twenty-five years' service. He had been proud to serve the Society and during his term of office had been associated with 23 Presidents. In concluding his reply, he spoke highly of the staff who had worked so loyally with him and expressed most sincere gratitude to the President, Fellows and friends for their kind presentation to him.

The President then delivered his Presidential Address, entitled "Carbohydrate Components in Biologically Active Materials." At its conclusion, a vote of thanks to him for his services in the Chair and for his Address with the request that he would allow his Address to be printed in the *Journal* was proposed by Professor N. V. Sidgwick and carried with acclamation.

The President then invited and welcomed the President-Elect, Professor C. N. Hinshelwood, to the Chair.

Before terminating the meeting the newly elected President thanked the Society and said that the world had just passed through a period of darkness, but we could now look forward to brighter times in which he hoped the Society would play its full part.

## REPORT OF COUNCIL FOR 1945.

During the year the Society has welcomed the renewal of contacts and exchanged greetings with scientific societies abroad. It has been represented at various functions overseas including the 220th Anniversary of the Academy of Sciences of the U.S.S.R. held in Moscow and Leningrad in June and at a scientific conference in Prague in November.

In December the Council conveyed their warmest congratulations to Sir Robert Robinson, Past President, on his election, on November 30th, to the Presidency of the Royal Society.

The Council also congratulated Sir Ian Heilbron, Vice-President, on the occasion of the award to him of the Priestley Medal of the American Chemical Society.

In December the Council agreed to the entry of the Faraday Society into the Chemical Council and to its participation in the Joint Subscription Scheme.

The Council have taken preliminary steps in making arrangements to celebrate the Centenary of the Society.

### I. FELLOWSHIP.

1. *Honorary Fellowship.* The following were unanimously elected Honorary Fellows of the Society in May. Sir Henry Dale, Professor V. M. Goldschmidt, Professor Frederick Joliot, and Professor Harold C. Urey.

2. *Fellowship Statistics.* The number of Fellows on the 31st December, 1944, was 5885. During 1945, 581 Fellows were elected and 32 reinstated, the corresponding figures in 1944 being 730 and 47, respectively. The Society has lost 12 Fellows on active service, and 1 reported missing, 57 by death,

47 by resignation and 45 by removals for non-payment of annual subscriptions—a total loss of 152 compared with 124 in 1944. The number of Fellows on the 31st December, 1945, was 6346. Of these 2759 are joint members of the three Chartered Bodies and 898 are members of the two publishing Societies. Of those who became joint members of the three bodies in 1945, 315 are new Fellows of the Chemical Society and of those who became joint two-body members 125 are new Fellows. The number of joint members of the three bodies has increased during the year by 377, of the joint members of two bodies by 162, and the number of single-body Fellows has decreased by 87.

3. *Joint Student Facilities.* During 1945, 51 have been granted joint student facilities by the two publishing societies under the Chemical Council scheme.

4. *Deaths.* The Council mourn the death of Sir Martin Forster, who served on the Council of the Society from 1901—1904, was an Honorary Secretary from 1904—1910, a Vice-President from 1910—1913, and Treasurer from 1915—1922. Among other prominent Fellows whose deaths the Council have also to record are Dr. E. F. Armstrong, Dr. F. W. Aston, Dr. G. D. Bengough, Sir Ernest A. Cook, senior Fellow at the time of his death in January, Dr. H. Dreyfus, Professor T. J. Nolan, Local Representative in Eire, and Dr. Clarence Smith, Editor, to whose death reference is made below.

## II. PUBLICATIONS.

1. *The Journal.* During the year 347 papers were received, of which 8 were declined and 1 withdrawn.

The *Journal* for 1945, occupying 930 pages, contained 244 papers (36 indexed as General, Physical, and Inorganic, and 208 as Organic) (845 pages), 18 notes (13 pages), and 4 lectures (33 pages); in addition, Obituary Notices occupied 13 pages, and the Report of the Annual General Meeting 26 pages.

The corresponding figures for 1944 were 679 pages, 184 papers, 15 notes, and 5 lectures.

The printers have been unable to avoid delay in publication owing to labour shortage, but by the end of the year this was only 2—3 weeks as compared with about a month in the middle of the year.

2. *Annual Reports.* Volume XLI for 1944 was not published till the end of 1945 for a similar reason, and shortage of paper delayed complete printing still further. Volume XLI contained 314 pages, whereas Volume XL contained 254 pages.

## III. MEETINGS.

1. *Scientific Meetings.* During 1945 seven meetings were held in London and thirty-eight outside London. A list of these, including the special lectures delivered (Liversidge, Hugo Müller, and Tilden), is given in Appendix B.

The Society also participated in the organising of a series of meetings in November to celebrate the jubilee of the Discovery of X-rays by Wilhelm Conrad Röntgen.

2. *Annual General Meeting.* The Hundred and Fourth Annual General Meeting was held in London on the 19th April and a report appeared in the *Journal* for May 1945.

## IV. LIBRARY.

The Annual Report of the Joint Library Committee for 1945 appears as Appendix A.

## V. ADMINISTRATION.

1. *Honorary Secretaryship.* In June the Council received the resignation of Professor H. V. A. Briscoe from the Office of Honorary Secretary. Dr. J. L. Simonsen was appointed to this office until the next Annual General Meeting.

2. *Chairman of the Publication Committee.* In February the Council accepted with regret the resignation of Professor T. S. Moore from the Chairmanship of the Publication Committee. They recorded their high appreciation of the services he had rendered the Society during his period of office. In May, Professor C. N. Hinshelwood was appointed to succeed Professor Moore.

3. *Elected Ordinary Membership of Council.* Under the operation of Bye-Law 56, which requires an elected ordinary member of Council to vacate office if he ceases to reside in the Constituency for which he was elected, Professor W. F. K. Wynne-Jones retired from Council in November and Professor D. H. Hey in December 1945. Dr. S. H. Harper and Professor M. Polanyi respectively were co-opted by Council, under Bye-Law 42, to fill these vacancies until the next Annual General Meeting.

4. *General Secretaryship.* As foreshadowed in the Report of Council for 1944, Mr. S. E. Carr retired from the Office of General Secretary in August. The Council have recorded their deep feeling of gratitude

for the services he has rendered to the Society over a period of 42 years. Arrangements have been made by Council to make an appropriate presentation to Mr. Carr from Fellows and friends at the 105th Annual General Meeting.

Dr. D. C. Martin was appointed in May to succeed Mr. S. E. Carr and assumed his duties in August.

5. *Editorship.* The Council learned with profound regret of the sudden death of Dr. Clarence Smith in June.

Professor C. S. Gibson kindly agreed to act as temporary Editor until a successor to Dr. Smith was appointed, and he acted in this capacity until the end of December. The Council have expressed their deep gratitude to Professor Gibson and to Dr. A. D. Mitchell (Assistant Editor) for the services they rendered to the Society during this period.

In October Dr. J. E. Driver was appointed as Editor to take up his duties on January 1st, 1946.

6. *Local Representatives.* In July Professor T. S. Wheeler was appointed to fill the office of Local Representative in Eire following the death of Professor T. J. Nolan.

In November the Council appointed Dr. S. H. Harper to be the Society's first Local Representative in the Southampton area.

Dr. S. J. Gregg and Dr. C. E. H. Bawn were appointed to fill the offices of Local Representatives in Exeter and Bristol respectively following the resignation of Professor H. T. S. Britton and Dr. E. B. Maxted respectively.

7. *Accommodation.* (a) Following the reception of a deputation to H.M. Government, reported in the Report of Council, 1944, the Society has submitted details of its accommodation requirements to the Royal Society. The Royal Society has co-ordinated the requirements of other Learned Societies and submitted proposals to H.M. Government.

(b) In September the Conjoint Chemical Office was moved from 6 Burlington Gardens to 9—10 Savile Row. The Conjoint Chemical Office and the Bureau of Abstracts are now accommodated at 9—10 Savile Row at a nominal rent.

## VI. FINANCE.

1. *Investments.* The following investments have been made during the year :

£175 standing to the credit of Life Composition Fees on General Account, 3% Savings Bonds, 1965—1975.

£3500 on Special Reserve Fund in 2½% National War Bonds, 1946—1948.

£1000 in Staff Pensions Fund in 3% Savings Bonds, 1955—1975.

£400 on Staff Pensions Fund was deposited in the Post Office Savings Bank.

2. *Insurance.* Fire insurances on the Library, on stocks of publications, and on office equipment have been increased by appropriate amounts.

3. *Contributions.* The Council received towards the cost of publications £1500 from the Chemical Council and, through the Royal Society, £400 from the Rockefeller Foundation and £200 from the Government Grant. The Association of British Chemical Manufacturers have notified the Council that they have entered into a Deed of Covenant to contribute £100 to the support of the Society, particularly its Library, for seven years. The Council record their thanks for these substantial contributions and to those Fellows who generously continue to support the Publications Fund.

4. *Bequests.* The Council have received notification that, under the Will of the late Sir Martin Forster, the Society was bequeathed the sum of £500.

## VII. BUREAU OF ABSTRACTS.

The Report of the Bureau of Abstracts for 1945 will be published later.





INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1945.

LIBRARY.

1944		1945		1944		1945	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
978	2 4	845	16 1	823	3 1	358	11 6
300	14 6	65	10 0	55	13 9	23	5 3
27	5 6	6	1 6	—	—	—	—
119	10 9	—	—	400	0 0	229	9 4
1425	13 1	—	—	27	5 6	300	0 0
		917	7 7	119	10 9	6	1 6
				1425	13 1	—	—
291	2 10	352	13 7	1569	4 7	1611	12 10
606	10 11	734	16 0	120	7 4	124	11 5
315	8 0	382	1 5	43	0 0	39	18 0
506	8 3	337	12 3	15	4 9	19	3 7
1719	10 0	1807	2 3	302	8 7	346	13 0
100	0 0	100	0 0				
21	0 0	21	0 0				
50	0 0	50	0 0				
26	5 0	26	5 0				
50	0 0	50	0 0				
10	10 0	10	10 0				
21	0 0	21	0 0				
3	0 0	16	6				
49	0 3	55	5 1				
330	15 3	334	16 7				
£3475	18 4	£3059	6 5				
		£3475	18 4				
		£3059	6 5				

*Income.*

To Contribution for Fittings, Furniture, Books, Periodicals and Binding: ...  
 Transfer from General Purposes Account ...  
 Transfer from Special Reserve Fund (deferred expenditure) ...  
 " Air Raid Precautions: ...  
 " Transfer from General Purposes Account ...  
 " War Damage Insurance: ...  
 " Transfer from General Purposes Account ...  
 " Contributions towards maintenance: ...  
 Through the Chemical Council:  
 Chemical Society (transfer from General Purposes Account) ...  
 Royal Institute of Chemistry ...  
 Society of Chemical Industry ...  
 From the Chemical Council ...  
 " Contributions, etc., received from other sources towards maintenance:  
 Association of British Chemical Manufacturers ...  
 Biochemical Society ...  
 British Association of Chemists ...  
 Faraday Society ...  
 Institute of Brewing ...  
 Society of Dyers and Colourists ...  
 Society of Public Analysts and other Analytical Chemists ...  
 Fellows ...  
 Miscellaneous receipts ...

*Expenditure.*

By Capital and Extraordinary Expenditure: ...  
 Books and Periodicals\* ...  
 Binding ...  
 Steel Shelving ...  
 Less Sale of Bookcases ...  
 Transfer to Special Reserve Fund ...  
 Air Raid Precautions ...  
 War Damage Insurance ...  
 " Maintenance:  
 Salaries ...  
 Superannuation of Library Staff ...  
 Postages ...  
 Miscellaneous Expenses ...  
 Overhead Expenses (proportion) ...

\* Other than those received in exchange

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1945.

SPECIAL RESERVE FUND.

1944		Income.		1945		SPECIAL RESERVE FUND.		1944		Expenditure.		1945		
£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.
175	5	3	To Dividends on Investments	223	7	0		286	2	5				
18	17	4	" Interest on Deposit...	36	11	10								
91	19	10	" Income Tax recovered	123	7	7								
<u>£286 2 5</u>				<u>£383 6 5</u>				<u>£286 2 5</u>				<u>£383 6 5</u>		

RESEARCH FUND.

1944		Income.		1945		RESEARCH FUND.		1944		Expenditure.		1945		
£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.
378	4	8	To Dividends on Investments	357	11	3		40	0	0				
365	4	11	" Income Tax recovered	380	2	4								
45	3	0	" Repayment of Grants	15	12	0								
18	9		" Interest on Deposit	2	9	0								
<u>£789 11 4</u>				<u>£755 15 1</u>				<u>£789 11 4</u>				<u>£755 15 1</u>		

SPECIAL PUBLICATIONS FUND.

1944		Income.		1945		SPECIAL PUBLICATIONS FUND.		1944		Expenditure.		1945		
£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.
8	13	6	To Sales of Publications:	11	8	6		109	9	7				
7	18	1	Memorial Lecture, Vol. I	10	10	3								
5	4	0	" " " " " " " " " " " "	6	18	1								
5	12	6	" " " " " " " " " " " "	10	18	8								
1	8	11	Friday Lectures	3	13	10								
1	15	4	Portraits	1	4	3								
			Other publications	44	3	7								
30	12	4	Dividend on Investment	74	0	8								
74	0	8	" " " " " " " " " " " "	24	0	8								
4	16	7	" Interest on Deposit	24	16	11								
<u>£109 9 7</u>				<u>£143 1 2</u>				<u>£109 9 7</u>				<u>£143 1 2</u>		



INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1945.

CENTENARY FUND

		1944		1945		1945	
		£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>							
	To Contribution from General Purposes Account	26	13 0	1000	0 0		
	" Interest on Deposit...			27	10 4		
		<u>£26</u>	<u>13 0</u>	<u>£1027</u>	<u>10 4</u>		
<i>Expenditure.</i>							
	By Balance, being Excess of Income over Expenditure, carried to Balance Sheet			26	13 0		
				<u>£26</u>	<u>13 0</u>		
				<u>£1027</u>	<u>10 4</u>		
						<u>£1027</u>	<u>10 4</u>

STAFF PENSIONS FUND.

		1944		1945		1945	
		£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>							
	To Transfer from General Purposes Account	130	0 0	2000	0 0		
	" Dividends on Investments			69	7 10		
	" Income Tax recovered			40	18 3		
	" Interest on Deposit			5	13 10		
				<u>£2115</u>	<u>19 11</u>		
				<u>£1004</u>	<u>0 10</u>		
<i>Expenditure.</i>							
	By Pensions paid during 1945					396	5 0
	Balance, being Excess of Income over Expenditure, carried to Balance Sheet			874	0 10		
				<u>£1004</u>	<u>0 10</u>		
						<u>£2115</u>	<u>19 11</u>

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

		1944		1945		1945	
		£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>							
	To Dividends on Investments	27	5 2				
	" Income Tax recovered			25	2 11		
	" Interest on Deposit					3	5 4
	Balance, being Excess of Expenditure over Income, carried to Balance Sheet			112	3 11		
				<u>£164</u>	<u>14 0</u>		
				<u>£52</u>	<u>17 2</u>		
<i>Expenditure.</i>							
	By Harrison Prize					150	0 0
	" Harrison Feloque					14	14 0
	" Miscellaneous Expenses						
	Balance, being Excess of Income over Expenditure, carried to Balance Sheet			49	11 10		
				<u>£164</u>	<u>14 0</u>		
				<u>£52</u>	<u>17 2</u>		
						<u>£164</u>	<u>14 0</u>









THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1945.

CENTENARY FUND.

		1944		1945		1944		1945	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
<i>Liabilities.</i>									
To Excess of Assets over Liabilities as per last									
1078	1 8			1104	14 8	1104	14 8		
Add Excess of Income over Expenditure for									
26	13 0			1027	10 4	2132	5 0		
		<u>1104 14 8</u>		<u>£1104 14 8</u>		<u>£2132 5 0</u>		<u>£2132 5 0</u>	
<i>Assets.</i>									
By Cash at Bank (including Deposit) and on deposit in Post Office Savings									
Bank and London Savings Bank ... ..									
		<u>1104 14 8</u>		<u>1104 14 8</u>		<u>2132 5 0</u>		<u>2132 5 0</u>	

STAFF PENSIONS FUND.

		1944		1945		1944		1945	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
To Sundry Creditors ... ..									
3640	10 1			396	5 0	900	0 0		
" Excess of Assets over Liabilities as per last									
874	0 10			4511	8 0	3619	10 10		
Balance Sheet ... ..									
4514	10 11			1719	14 11	4	7 2		
5	2 11			6231	2 11				
Add Excess of Income over Expenditure for									
year ... ..									
		<u>4511 8 0</u>		<u>6231 2 11</u>		<u>£4523 18 0</u>		<u>£6627 7 11</u>	
Deduct Loss on Realisation of Investment ...									
		<u>£4523 18 0</u>		<u>£4523 18 0</u>		<u>£6627 7 11</u>		<u>£6627 7 11</u>	
By Sundry Debtor (General Purposes Account) ... ..									
Investments as per Schedule (cost or value when acquired) ... ..									
Cash at Bank (including Deposit) and on deposit in the Post Office									
Savings Bank ... ..									
		<u>1000 0 0</u>		<u>1000 0 0</u>		<u>1000 0 0</u>		<u>1000 0 0</u>	
		<u>4619 10 10</u>		<u>4619 10 10</u>		<u>4619 10 10</u>		<u>4619 10 10</u>	
		<u>1007 17 1</u>		<u>1007 17 1</u>		<u>1007 17 1</u>		<u>1007 17 1</u>	

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

		1944		1945		1944		1945	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
To Excess of Assets over Liabilities as per last									
1208	19 0			1258	10 10	1101	7 11		
Balance Sheet ... ..									
49	11 10			1258	10 10	157	2 11		
Add Excess of Income over Expenditure for									
year ... ..									
		<u>1258 10 10</u>		<u>1258 10 10</u>		<u>1101 7 11</u>		<u>1101 7 11</u>	
Deduct Excess of Expenditure over Income									
for year ... ..									
		<u>112 3 11</u>		<u>1146 6 11</u>		<u>44 19 0</u>		<u>44 19 0</u>	
		<u>£1258 10 10</u>		<u>£1258 10 10</u>		<u>£1146 6 11</u>		<u>£1146 6 11</u>	

THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1945.

SPECIAL LECTURES FUND.

1944		1945		1944		1945	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
1189	17 7	1208	4 1	1000	0 0	1000	0 0
18	6 6	1208	4 1	208	4 1	224	4 6
<u>£1208 4 1</u>		<u>£1208 4 1</u>		<u>£1208 4 1</u>		<u>£1224 4 6</u>	
				<i>Liabilities.</i>			
				To Excess of Assets over Liabilities as per last Balance Sheet			
				Add Excess of Income over Expenditure for year			
				By Investment as per Schedule (cost or value when acquired)			
				" Cash at Bank			
				<u>£1224 4 6</u>			
				<i>Assets.</i>			
				By Investment as per Schedule (cost or value when acquired)			
				" Cash at Bank			
				<u>£1224 4 6</u>			

THE FARADAY LECTURE FUND.

431	14 9	445	2 3	369	4 0	369	4 0
13	7 6	445	2 3	75	18 3	89	6 8
<u>£445 2 3</u>		<u>£445 2 3</u>		<u>£445 2 3</u>		<u>£468 9 8</u>	
				To Excess of Assets over Liabilities as per last Balance Sheet			
				Add Excess of Income over Expenditure for year			
				By Investment as per Schedule (cost or value when acquired)			
				" Cash at Bank			
				<u>£468 9 8</u>			

THE TILDEN LECTURE FUND.

1979	2 9	1970	16 0	1878	14 10	1878	14 10
8	6 9	1970	16 0	104	13 2	88	16 3
<u>£1983 8 0</u>		<u>£1967 11 1</u>		<u>£1983 8 0</u>		<u>£1967 11 1</u>	
				To Sundry Creditors			
				" Excess of Assets over Liabilities as per last Balance Sheet			
				Add Excess of Income over Expenditure over Income for year			
				By Investment as per Schedule (cost or value when acquired)			
				" Cash at Bank			
				<u>£1967 11 1</u>			





## APPENDIX A.

## ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE, 1945.

The use of the Library has shown a marked increase during the year. The attendances and books borrowed were not only more than during the preceding year, but the figures are also much higher than those for 1938, although the hours of opening were restricted for the greater part of the year. The attendances by readers show an increase of 1388 over the figures for 1944, and books borrowed increased by 519. Photostat copying continues to expand, 4030 printed pages having been copied, against 3687 the previous year, and the number of telephone enquiries dealt with, numbering 1590, was only slightly less than in 1944.

Additions to the Library consisted of 267 books, of which 141 were presented, 476 volumes of periodicals, and 97 pamphlets. The Library now contains 47,016 volumes, of which 14,076 are books and 32,940 volumes of periodicals.

*Analysis.*

	Attendances.	Books borrowed.	Books added.	Volumes of periodicals.	Pamphlets.
1945 .....	9175	8104 (2900 by post)	267	476	97
1944 .....	7787	7584 (3094 by post)	219	455	146
1938 .....	8507	5948 (1697 by post)	250	744	283

(The figures for 1938, the last complete pre-war year, are given for comparison.)

The Committee warmly appreciates the gift of many books from publishers and readers, and special thanks are due to the Society of Public Analysts, Microchemistry Group, for the generous gift of a set of "Mikrochemie" and "Mikrochimica Acta" for loan purposes, and to the British Council for gifts of Russian literature.

During the war years the Library closed at 5 p.m. daily, except on Saturdays, when it closed at 1 p.m. With the end of the European war these hours were extended to 6 p.m. and 5 p.m. respectively, and on October 1st the full pre-war hours of opening were resumed, viz. Monday to Friday, 10 a.m. to 9 p.m., Saturday 10 a.m. to 5 p.m. Readers have greatly appreciated this extension of hours, the more so as restricted hours of opening still prevail in other scientific libraries.

The pressing need for more accommodation, intensified by the need for receiving back the volumes which had been sent away as an air raid precaution, caused the re-consideration of schemes which it had been hoped to avoid, by re-housing the Library in a new building. Steel shelving has been erected to cover the walls of two rooms on the ground floor and one on the first floor. These will accommodate all the volumes of duplicate periodicals which had been sent away, and at the end of the year arrangements were made for their return. They will also hold books which will be displaced by the Roscoe and Faraday Collections when these are returned, and will further provide for volumes from seriously overcrowded shelves in other rooms and will probably accommodate an equivalent number of books to those published on the Continent during the war. Plans for expansion for a limited number of years have been made by a scheme for the erection of further shelving in the Meeting Room.

A number of German publications have been received from various sources, including items which have been reproduced in the United States, and an investigation in Germany by Dr. McCombie and the Librarian has paved the way for another visit, when it is hoped to acquire a good deal of literature. War-time literature from other European countries is gradually arriving.

Removal of cases from the floor of the Reading Room has enabled some rearrangement of furniture to be made, increasing seating accommodation.

Fresh problems arise with such a move, for fewer volumes become directly accessible to readers, and the inconvenience this causes to them has already been experienced. The expedients which have been adopted can only be looked upon as makeshift measures. The serious disadvantage of having a library spread over eight rooms on four floors is obvious. The intrusion by the Library staff on other departments to fetch books is most unsatisfactory, and it becomes increasingly difficult to maintain that prompt service which has always been a feature of the Library. The Committee again emphasizes that only a modern well-equipped building worthy of housing such a collection can effectively meet the problems with which the Library is faced, and enable it to function to the greatest advantage.

## APPENDIX B.

## MEETINGS HELD DURING 1945.

*In London.*

18th January, *Tilden Lecture*, "Diffraction Methods in Modern Structural Chemistry," by Professor J. M. Robertson; 15th February, *Meeting* for reading papers; 15th March, *Liversidge Lecture*, "Reactions in Monolayers," by Professor E. K. Rideal; 17th May, *Hugo Müller Lecture*, "The Past and Future of Crystal Chemistry," by Professor J. D. Bernal; 4th October, *Lecture*, "Recent Work on Corrosion and Oxidation Reactions," by Dr. U. R. Evans; 1st November, *Meeting* for reading papers; 6th December, *Meeting* for reading papers.

*Outside London.*

*Bristol.* 8th February, at the University, *Tilden Lecture*, "Diffraction Methods in Modern Structural Chemistry," by Professor J. M. Robertson.

*Edinburgh.* 26th January, at the North British Station Hotel (joint meeting with the Local Section of the R.I.C. and the S.C.I.), *Lecture*, "The Use of Radioactive Tracer Atoms in Chemical and Biological Research," by Dr. F. Fairbrother; 23rd February, at the North British Station Hotel, *Tilden Lecture*, "Non-Benzenoid Aromatic Hydrocarbons," by Professor W. Baker; 27th November, at the University (joint meeting with the University Chemical Society and the local sections of the R.I.C. and the S.C.I.), *Lecture*, "The Structure and Chemistry of Metallic Crystals," by Professor G. D. Preston.

*Eire.* 24th January, at Trinity College, Dublin (joint meeting with the R.I.C.), *Lecture*, "Recent Investigations on the Chemistry of Seaweed," by Dr. Vincent Barry.

*Exeter.* 30th November, at the Washington Singer Laboratories, *Lecture*, "The Physical Chemistry of Powders and Fine Structured Solids," by Dr. D. H. Bangham.

*Glasgow.* 16th February, at the Royal Technical College, *Lecture*, "Some Aspects of the Metabolism of the Steroid Hormones," by Professor G. F. Marrian, preceded by the Annual General Meeting of local Fellows; 26th October, at the University (joint meeting with the Glasgow University Alchemists' Club and the Andersonian Chemical Society), *Lecture*, "Long Chain Molecules," by Sir Robert H. Pickard; 16th November, at the Royal Technical College, *Lecture*, "Polynucleotides and Nucleoproteins," by Professor J. M. Gulland.

*Leeds.* 6th March (joint meeting with Leeds University Chemical Society), *Discussion* on "The Repercussions of Modern Theoretical Developments on the Methods of Teaching Chemistry in Schools," opened by Professor F. G. Tryhorn, preceded by a film "Sulphonamide Therapy"; 26th November, at the University, *Tilden Lecture*, "Substitution," by Professor E. D. Hughes.

*Liverpool.* 18th January, *Lecture*, "Malaria," by Dr. J. D. Fulton; 15th November, *Lecture*, "The Structure of the Boron Hydrides and Related Compounds," by Mr. R. P. Bell; both lectures were given in the Muspratt Lecture Theatre of the University.

*Manchester.* 26th January, at the University (joint meeting with the local section of the R.I.C.), *Lecture*, "Some Observations on the Nature of Bacterial and Tissue Antigens," by Dr. W. T. J. Morgan; 15th February, at the University, *Meeting* for reading papers; 2nd March (joint meeting with the local sections of the R.I.C. and the S.C.I.), *Lecture*, "The Chemical Structure of Starch," by Professor E. L. Hirst; 22nd March, at the University (joint meeting with the local section of the R.I.C. and the S.C.I.), *Liversidge Lecture*, "Reactions in Monolayers," by Professor E. K. Rideal; 29th October, at the Engineers' Club (joint meeting with the local sections of the R.I.C. and the S.C.I.), *Lecture*, "The Publications of the Three Chartered Bodies," by Mr. F. P. Dunn; 16th November, at the University, *Meeting* for reading papers; 7th December, at the University (joint meeting with the local section of the R.I.C.), *Lecture*, "The Principles of Crystal Analysis," by Professor J. M. Robertson.

*Newcastle and Durham.* 8th June, at King's College, Newcastle, *Meeting* for reading papers. *Bedson Club Lectures* at King's College, Newcastle; 26th October, on "Surface Films," by Professor N. K. Adam; 23rd November, on "The Metabolism of Steroids and Steroid Hormones," by Professor G. F. Marrian.

*North Wales.* 8th February, *Lecture*, "The Strength of Carbon Bonds," by Professor M. Polanyi; 22nd November, *Lecture*, "Colchicine: its Chemistry and Some Biological Effects," by Professor J. W. Cook. These were joint meetings with the University College of North Wales Chemical Society, and were held at University College, Bangor.

*Nottingham.* 22nd February, *Lecture*, "Pyrethrum and the Pyrethrins," by Dr. A. E. Gillam; 2nd November, *Lecture*, "Some Problems in the Chemistry of the Polysaccharides," by Professor E. L. Hirst; 29th November, *Lecture*, "Structural Inorganic Chemistry," by Professor W. Wardlaw (joint

meeting with the University College Physical and Chemical Society). These meetings were held at University College.

*St. Andrews and Dundee.* 26th April, at University College, *Lecture*, "The Structure and Chemistry of Metallic Crystals," by Professor G. D. Preston.

*Sheffield.* 9th February, *Lecture*, "Non-Benzenoid Aromatic Systems," by Professor W. Baker (joint meeting with the University Chemical Society); 11th May (joint meeting with the University Chemical Society and the South Yorkshire Section of the R.I.C.), *Lecture*, "Recent Developments in Petroleum Technology," by Dr. A. E. Dunstan; 25th May, *Lecture*, "The Place of the Resonance Concept in Chemistry," by Mr. R. P. Bell; 26th October (joint meeting with the South Yorkshire Section of the R.I.C.), *Lecture*, "Burner Flames," (a) "Quiescent Flames," by Professor D. T. A. Townend, (b) "Turbulent Flames," by Dr. J. E. Garside; 16th November (joint meeting with the University Chemical Society), *Lecture*, "Our War Against Insect Pests," by Professor I. M. Heilbron. These meetings were held at the University.

*South Wales.* 18th January, at University College, Swansea, *Lecture*, "Some Consequences of Hydrogen Bond Formation," by Professor W. Baker; 24th May, at University College, Cardiff, *Hugo Müller Lecture*, "The Past and Future of Crystal Chemistry," by Professor J. D. Bernal; 7th November, at Newport Technical College (joint meeting with the local sections of the R.I.C. and the S.C.I.), *Lecture*, "Research on Coal Tar," by Mr. E. A. Coulson and Mr. J. I. Jones; 23rd November, at University College, Cardiff (joint meeting with the local sections of the R.I.C. and the S.C.I.), *Lecture*, "Colchicine: its Chemistry and Biological Effects," by Professor J. W. Cook.