

THE HUNDRED AND SECOND ANNIVERSARY MEETING.

THE Annual General Meeting was held at Burlington House on Thursday, 25th March, 1943, at 11.30 a.m., the President, Dr. W. H. Mills, F.R.S., occupying the Chair.

The notice convening the meeting was read.

A number of Fellows were formally admitted into the Society and their names are given in the *Proceedings* for March.

The Report of Council for 1942, copies of which were placed round the Meeting Room, was presented, and Dr. C. W. Davies, in introducing the general section of the report, referred to the great loss suffered by the Society through the death of Mr. F. W. Clifford in September. Mr. Clifford had been in charge of the Society's library for nearly forty years, and would be affectionately remembered by the many Fellows who knew him.

Referring to the *Journal*, Dr. Davies said that the problem had been to make the best possible use of the small quota of paper available; the innovations and improvements planned during the past four or five years must still wait upon better times. The corresponding reduction in the length of the Annual Reports was less serious, owing to the comparative lull in the publication of new work; an effort, in fact, was being made to turn this to advantage, by making it the opportunity to publish more balanced reports on recent progress in selected fields.

The Treasurer who was then called upon by the President, surveyed the work of the Conjoint Office and stated that but for its inception the accounts would probably not have been ready in time for the Annual General Meeting. It appeared inevitable that during the first two months of each year a congestion of work would arise owing to the fact that the preparation of the Annual Accounts must be dealt with at the same time as the receipt of subscriptions and the annual revision of publications chosen by Fellows. It therefore seemed wise to consider putting forward the date of the Annual General Meeting to May.

He drew attention to the report of the Bureau of Chemical and Physiological Abstracts, which for the first time showed the complete cost to the chemical community of the abstracting service and stressed that this marked a new and important stage in co-operation. He then dealt briefly with the accounts and referred to some of the more salient features. In conclusion, he paid tribute to the work of the staff of the Chemical Society and of the Conjoint Chemical Office.

The adoption of the Report of Council for 1942, including Statements of Accounts and Balance Sheets, was proposed by Dr. J. J. Fox, seconded by Professor J. L. Simonsen, and carried unanimously.

The names of Fellows elected to vacancies on the Council for 1943—1944 were declared as follows :—

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

Sir Alfred Egerton and Professor C. K. Ingold.

Elected Ordinary Members of Council :

Constituency III (North-West England, North Wales, and the Isle of Man).

Dr. R. A. Morton.

Constituency V (Scotland).

Dr. J. D. M. Ross.

The report of the Scrutators on the ballot for Elected Ordinary Members of Council for Constituency I (South-East England) was presented, and it was declared that Dr. J. C. Smith, Dr. G. B. B. M. Sutherland, and Dr. W. H. J. Vernon had been elected.

A vote of thanks to the Vice-Presidents, Treasurer, Honorary Secretaries, Council and Committees, for their services during the past year, proposed by Professor H. Bassett, seconded by Dr. J. T. Hewitt, was carried, and acknowledged by Dr. F. G. Mann.

On the motion of Dr. A. E. Dunstan, seconded by Dr. H. W. Thompson, Messrs. W. B. Keen & Co., were appointed Auditors for 1943.

The meeting was then adjourned.

A luncheon at which 55 Fellows and guests were present, was held at Stewarts Restaurant (Old Bond Street), at 1 p.m.

The meeting was resumed at 2.30 p.m., when the President delivered his Presidential Address entitled "Stereochemistry of Labile Compounds."

At the 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 seconded by Professor J. W. Cook. This was carried with acclamation, and the President, in acknowledgment, referred to the help he had received from the Council and Officers.

REPORT OF COUNCIL, 1942.

During 1942, the normal activities of the Society have been maintained as far as the limitations imposed by the war conditions have permitted. The attendance at meetings both in and outside London has been very gratifying. In London, the holding of meetings for the reading of original papers has been resumed with success.

I. FELLOWSHIP.

(1) *Fellowship Statistics.*

The number of Fellows on the 31st December, 1941, was 4516. During 1942, 475 Fellows were elected and 29 reinstated, the corresponding figures in 1941 being 863 and 132, respectively. The Society has lost 2 Fellows killed in action, 57 through death, 50 by resignation and 85 by removal for non-payment of annual subscription—a total loss of 194, compared with 164 in 1941. The number of Fellows on the 31st December, 1942, was 4826; of these, 1647 are joint members of the three Chartered Bodies, and 458 of the two Chartered Bodies. Of the joint members of the three Bodies elected in 1942, 216 are new Fellows of the Chemical Society, and of the joint two-Body members, 73 are new Fellows. The number of joint members of the three Chartered Bodies has increased during the year by 96, and of the two Chartered Bodies by 94.

(2) *60 and 50 years of Fellowship.*

The congratulations of the Society have been conveyed to a number of Fellows, who, during the year, have completed 60 and 50 years of Fellowship; the names of these have appeared in the Proceedings.

(3) *Deaths.*

The Council have to mourn the loss of three of their Honorary Fellows, Sir William Bragg, Professor Max Bodenstein and Professor Richard Willstätter, and among prominent Fellows of the Society whose deaths the Council have also to record are Professor G. G. Henderson (President from 1931—33), Professor J. Norman Collie (Vice-President 1909—12), Sir Henry A. Miers (Vice-President 1901—1904), and Mr. Walter Odling, who, elected in 1873, was the senior Fellow of the Society. Mr. Avigdor Lifschits and Lieut. David W. W. Spittle were killed in action.

The Council have to deplore the death of Mr. Francis W. Clifford, who had been Librarian since June, 1903, and to whom the development of the Library has been so mainly due.

It was also with profound regret that the Council learned of the death of Mr. H. J. Pooley, General Secretary of the Society of Chemical Industry since June, 1929; they conveyed their sympathy to the sister Society.

II. PUBLICATIONS.

(1) *Journal.*

During the year 188 papers were received by the Society; of these 6 were declined.

In addition to Obituary Notices (21 pages) and the report on the Annual General Meeting (24 pages) the *Journal* for 1942, occupying 758 pages, contains 167 memoirs (21 on General, Physical and Inorganic Chemistry and 146 on Organic Chemistry), 21 notes, and 7 lectures (62 pages). The corresponding figures for 1941 are 878 pages, 155 memoirs, 15 notes, and 4 lectures. (See also VII (2).)

(2) *Abstracts.*

The report of the Bureau of Chemical and Physiological Abstracts for 1941 appears as Appendix A to this report. For the first time the whole of the Accounts of Abstracts A and B are contained in the report so that the cost to the chemical community of the Abstracts as a whole can be readily ascertained.

(3) *Annual Reports.*

Volume XXXVIII (1941) of the Annual Reports on the Progress of Chemistry, published in June, 1942, contained 297 pages as against 477 pages in Volume XXXVII for 1940.

III. MEETINGS.

(1) *Scientific Meetings.*

During 1942, seven meetings were held in London and twenty-four outside London. A list of these is given in Appendix C.

(2) *Annual General Meeting.*

The Annual General Meeting was held in London on March 26th of which a full report appeared in the *Journal* for April.

(3) Reports of Meetings.

The Council of the Society of Chemical Industry have agreed to publish in "Chemistry and Industry" reports of meetings of the Society held both outside London as well as those held in London, and the Council have expressed their appreciation of this further step in co-operation between the two Societies. As many of the meetings in the provinces were joint meetings, this procedure has resulted in economy in the use of paper.

IV. LIBRARY.

The Annual Report of the Joint Library Committee for 1942 appears as Appendix B.

V. ADVISORY RESEARCH COUNCIL OF THE CHEMICAL SOCIETY.

During 1942, the Advisory Research Council of the Chemical Society continued to receive offers of assistance from Supervisors of Research. The scheme to meet demands for fine chemicals required by research workers has functioned with success, and the Advisory Research Council is now concerned in preparing a list of fine chemicals required for research purposes not available in this country, with a view to arranging for their supply from the United States of America.

VI. ADMINISTRATION.*(1) Honorary Secretary.*

The Council have approached the Privy Council for permission to vary Bye-Law 54 dealing with the terms of office of Secretary, and the Lord President of the Council exercising the powers conferred upon him by the Chartered and other Bodies (Temporary Provisions) Act 1939, and the Order in Council made under Section I thereof, has directed that while this Act remains in force and notwithstanding anything contained in the Charters or Bye-Laws of the Society, it shall be lawful for any Secretary of the Society to hold office for a period exceeding six years.

(2) Elected Ordinary Members of Council.

Professor G. F. Marrian retired from the Council in June on leaving Constituency V. and Dr. J. D. M. Ross was appointed to fill the vacancy until the next Annual General Meeting. Dr. G. S. Whitby also retired from the Council in November on leaving the United Kingdom.

(3) Chairman of Publication Committee.

In May the Council accepted with regret the resignation of Professor S. Sugden from the office of Chairman of the Publication Committee owing to pressure of war work and expressed their appreciation of his services. Professor T. S. Moore consented to accept office.

(4) Local Representatives.

The resignation of Dr. J. C. Roberts from the office of Local Representative for Nottingham was accepted with regret; Mr. D. O. Jordan was appointed to fill the vacancy. Owing to the difficulties of arranging joint meetings for Eire and Northern Ireland it was agreed, as a war time measure, to appoint a Local Representative for Northern Ireland in addition to the Representative for Eire, and Dr. Hugh Graham accepted this office. It was also decided to leave in abeyance for the present the resolution of Council restricting the term of office to three years.

VII. FINANCE.*(1) Investments.*

The following investments have been made during the year :

£44 4s. 4d., the balance of the Tilden legacy, in 3% Funding Stock, 1959—1969.

£750 0s. 0d. Special Reserve Fund for research, in 2½% National War Bonds, 1949—1951.

£1800, Special Reserve for publications, and £250 Special Reserve for Library in National War Bonds 2½% 1946—1948.

£100 0s. 0d. Life Composition Fees, in 3% Savings Bonds 1955—1965.

The £1400 India 2½% stock on General Purposes Account was realised.

(2) Supply of Paper for Publications.

During the year, the Council have taken various steps to meet the need for economy in the use of paper for the publications. Among these, the type of the *Journal* has been reduced in size, the number of pages each month has been restricted, and Authors and Referees have been instructed that papers should be written as concisely as possible. It was also decided that as the Report of Council and Statements of

Accounts are published in full in the *Journal*, they should not be circulated to Fellows before the Annual General Meeting in 1943, but should be available to Fellows who applied for them.

The Council record their indebtedness to the Treasurer for the expert advice he has tendered to the Society on the supply of paper.

(3) *Insurances.*

The Council decided that during the War the Society's insurances should be reviewed annually. In 1942, the Fire Insurance was increased from £44,414 to £49,460; of this, £31,550 was for library books, and £4850 for publications, the balance being on general contents, whether stored in Burlington House or elsewhere. War Damage insurances were increased from £38,200 to £52,825.

(4) *Contributions.*

In September, the Council were gratified to learn that the Chemical Council had decided to divide certain of their investments comprising £3000 Savings Bonds and £1500 2½% National War Bonds equally between the Chemical Society and the Society of Chemical Industry for the benefit of their respective Publications Reserve Funds; they have expressed their appreciation of this substantial help.

The Council have also received £1050 from the Chemical Council, and the Royal Society has contributed £400 from the Rockefeller Grant and £300 from the Government Publications Grant towards the cost of the Society's publications for 1942. The Council have expressed their thanks for this valuable financial aid, and have acknowledged in the *Proceedings* their indebtedness to those Fellows who continue to contribute to the Publications Fund.

(5) *Conjoint Chemical Office.*

In May, a joint accountancy and distribution office was set up under the Chemical Council to facilitate the working of the scheme of co-operation. Through the good offices of the Royal Society, the Ministry of Works and Buildings have placed at the disposal of the Chemical Council a suite of six rooms at 6, Burlington Gardens. The work is carried out by members of staff seconded by the Chemical Society and the Society of Chemical Industry, with Mr. H. J. Morris in charge and Miss A. G. Knight as deputy.

VIII. REPRESENTATIVES ON JOINT COMMITTEES AND ON OTHER BODIES.

The Society's representatives during 1942 were as follows:

Anglo-Soviet Scientific Collaboration Sub-Committee:

Sir John Russell.

Bristol University Court:

Prof. F. G. Donnan.

British National Committee for Chemistry:

Prof. F. G. Donnan, Mr. F. P. Dunn, Dr. C. W. Davies.

British Standards Institution:

Council of Chemical Division: Dr. J. J. Fox.

Technical Committees: (In suspense).

Bureau of Chemical and Physiological Abstracts:

Dr. H. J. T. Ellingham, Prof. C. R. Harington, Prof. G. A. R. Kon, and one of the Hon. Secretaries, with the Treasurer *ex-officio*.

Chemical Council:

Mr. F. P. Dunn, Dr. C. W. Davies, Dr. L. H. Lampitt.

Chemical Council Special Committee re Promoting Increase of Membership:

Dr. H. J. T. Ellingham, Dr. R. E. Slade.

City and Guilds of London Institute:

The President, *ex officio*.

Faraday Society:

Colloid Committee: Mr. D. C. Henry.

Joint Library Committee:

Prof. A. J. Allmand, Prof. H. Bassett, Dr. O. L. Brady, Prof. C. H. Desch, Mr. M. B. Donald, Dr. H. J. T. Ellingham, Dr. H. J. Eméleus, Dr. C. F. Goodeve, Dr. P. Haas, Prof. C. R. Harington, Dr. T. A. Henry, Dr. E. W. McClelland, Dr. E. E. Turner, Prof. W. Wardlaw.

Laws Agricultural Trust:

Committee of Management: Dr. E. F. Armstrong.

Royal Society:

Joint Standing Committee for Symbols and Abbreviations: Dr. C. W. Davies and Dr. H. J. T. Ellingham.

IX. ACKNOWLEDGMENTS.

The Council express their gratitude to those Fellows who have continued to give their services freely to the Society during the year. They have expressed their thanks to Sir Wyndham R. Dunstan, K.C.M.G., F.R.S., for presenting a portrait of himself in oils by Colin Forbes, and to many Fellows for presenting the Society's publications.

Industry, that on the A I and A II sections by the Chemical Society, but the responsibility of the Chemical Society does not end at this, for it contributes £1500 a year to A III. As has been mentioned A III is an entity and whereas both the Chemical Society and the Society of Chemical Industry have put to reserve for post-war publications certain sums of money, any such reserve for A III has to be met from current income of the A III fund. The precaution taken last year of putting to reserve £700 has again been taken this year, so that this reserve stands at some £1400, a figure which, however, must be regarded as totally inadequate for post-war requirements.

The Bureau records with pleasure that the Institute of Chemistry has expressed its practical interest in the work of Abstracting by an *ex gratia* payment to the funds of £100.

It will be remembered that some time ago the method of division of the abstracts was revised and A I, A II, A III, B I, B II, and B III came into being. It happens that certain members only require, through the scheme of collaboration, a limited number of sections, and the Bureau at the present time has a committee studying this important aspect of its work. The difficulty is that specialists require specialised abstracts. The Bureau will endeavour to meet this need but the difficulties are particularly notable in the field of applied chemistry. Nevertheless, the Bureau feels that even here there are some practical steps which can be taken and is continuing to explore the matter.

Under the ægis of the Chemical Council, the Conjoint Chemical Office has been opened during the year in Burlington Gardens, and both the Accounts Department and the Indexing Department of the Bureau have been moved to these offices; the Editorial Department still remains at Clifton House.

At the bi-monthly meetings of the Bureau and of its Finance Committee, the great difficulties imposed on the abstracting organisation by war conditions have been constantly considered. Paper restrictions are onerous and the difficulties of obtaining supplies of foreign journals needed by the Bureau for abstracting purposes have persisted during the past year. Journals from Japan and enemy-occupied territory in the Far East have ceased to arrive, but the lack of these has been offset by the more regular receipt of European Journals. The Bureau wishes to express its high appreciation of the courtesy of the Science Library in loaning many of these journals which would otherwise not be available.

In the early part of 1942 it was found that, despite the reduction in the size of type adopted in 1941, the quota of paper allocated to the Bureau was insufficient for the amount of matter available. It was therefore decided that the width and depth of each column of abstracts should be increased; this change was put into effect in April. At the same time instructions were issued that abstracts of papers of minor importance should be condensed to a few lines or even to a title only.

No one regrets more sincerely the poor appearance of the present Abstracts than members of the Bureau, and it is confidently anticipated that so soon as conditions become sufficiently normal, improvements in paper and presentation will be instituted which will ensure that the publications of the Bureau will bear comparison with abstracts produced by any other abstracting service.

The changes in Abstracts A II mentioned in last year's Report have been put into effect and have met with general approval. There is also evidence that the extended system of cross-references has been appreciated.

Marked interest continues to be shown in the work of Section A III of the Abstracts. Practical manifestation of this interest during the year has been an *ex gratia* payment of £312 from the Chemical Council in respect of the supply of Abstracts A III to participants in the collaborative scheme, and a further grant of £75 from the Society of Chemical Industry. The Bureau wishes to record its high appreciation of these grants.

The notice, to which reference was made last year, inviting readers to apply to the Editor for information as to where the various journals might be consulted, has brought a very considerable increase in such enquiries and in requests for photostat copies of papers.

As will be seen from Appendix II, the total number of abstracts printed in 1942 was 26,008 (898 pages) compared with 24,707 (984 pages) in 1941, an increase of about over 5% in the number of abstracts and a decrease of nearly 9% in number of pages. The increase in the numbers of abstracts was rather more pronounced in B (10,678 to 11,664) than in A (14,029 to 14,344). The most notable increases were in sections A II and B II; the only section showing a decrease was B III. The increased number of abstracts per page was due in part to the increase in type area which was adopted during the year and in part to a drastic condensation of many of the abstracts.

APPENDIX I.

BUREAU OF CHEMICAL AND PHYSIOLOGICAL ABSTRACTS.

INCOME AND EXPENDITURE ACCOUNT OF ABSTRACTS A I AND A II FOR THE YEAR ENDED 31ST DECEMBER, 1942.

		Expenditure.			Income.		
		£	s.	d.	£	s.	d.
Abstracts A I:							
To	Editorial Salaries	405	6	0			
	Postages	24	10	5			
	Abstractors' Fees	293	5	9			
	Printing and Paper	762	2	2			
	Binding and Distribution	117	7	2			
	Miscellaneous (including War Damage Insurance)	45	5	1			
				1647			
	Index—						
	Salaries	68	2	0			
	Superannuation	4	18	5			
	Printing and Paper	178	1	7			
	Binding and Distribution	18	0	9			
	Miscellaneous	30	9	1			
				296			
	Share of Overhead Expenses, The Chemical Society	161	15	3			
	Share of Overhead Expenses, Society of Chemical Industry	53	0	0			
				214			
				2159			
Abstracts A II							
To	Editorial Salaries	311	3	5			
	Postages	24	7	11			
	Abstractors' Fees	309	19	2			
	Printing and Paper	875	0	1			
	Binding and Distribution	117	7	5			
	Miscellaneous (including War Damage Insurance)	45	5	1			
				1683			
	Index—						
	Salaries	71	19	3			
	Superannuation	4	18	5			
	Printing and Paper	166	0	7			
	Binding and Distribution	18	0	9			
	Miscellaneous	30	2	2			
				281			
	Share of Overhead Expenses, The Chemical Society	161	15	3			
	Share of Overhead Expenses, Society of Chemical Industry	53	0	0			
				214			
				2178			
				£4338			
				3			
				5			
				£4338			
				3			
				5			
				2221			
				19			
				9			
				2070			
				0			
				21			
				3			
				0			
				25			
				0			
				2221			
				19			
				9			

£4338	3	5
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INCOME AND EXPENDITURE ACCOUNT OF ABSTRACTS A III RESERVE FUND FOR THE YEAR ENDED 31ST DECEMBER, 1942.

	1941	1942	1941	1942
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
To Excess of Income over Expenditure carried to Balance Sheet	---	£5 3 0	---	£5 3 0
By Dividend on Investments	---	---	---	---
	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
	£700 0 0	£700 0 0	£700 0 0	£1405 3 0

BALANCE SHEET OF ABSTRACTS A III RESERVE FUND FOR THE YEAR ENDED 31ST DECEMBER, 1942.

	£ s. d.	£ s. d.	£ s. d.	£ s. d.
To Cash Receivable	700 0 0	700 0 0	700 0 0	700 0 0
" Excess of Assets over Liabilities as per last Balance Sheet	---	---	---	---
Add Amount transferred from Abstract A III Account	---	---	---	---
Add Excess of Income over Expenditure for Year	---	5 3 0	---	---
	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
	£700 0 0	£1405 3 0	£700 0 0	£1405 3 0

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

224, REGENT STREET, W. 1.
10th March, 1943.

F. P. DUNN, Treasurer of Bureau.

W. B. KEENE & CO.,
Chartered Accountants.

SCHEDULE OF INVESTMENTS OF ABSTRACTS A III RESERVE FUND.

	Value or Cost when Acquired.	£ s. d.	Market Value 31st December, 1942.	£ s. d.
£700 3% Savings Bonds, 1935/65	700 0 0	700 0 0	708 15 0	708 15 0
£700 2½% National War Bonds, 1951/63	700 0 0	700 0 0	700 0 0	700 0 0
	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
	£1400 0 0	£1400 0 0	£1408 15 0	£1408 15 0

BUREAU OF CHEMICAL AND PHYSIOLOGICAL ABSTRACTS.

INCOME AND EXPENDITURE ACCOUNT "B" ABSTRACTS FOR THE YEAR ENDING 31ST DECEMBER, 1942.

		Expenditure.			Income.		
		£	s.	d.	£	s.	d.
Abstracts B I:							
	To Editorial Salaries	...	...	407 9 5			
	" Postages	...	...	16 1 5			
	" Abstractors' Fees	...	...	390 6 6			
	" Printing and Paper	...	...	933 19 6			
	" Binding and Distribution	...	...	114 18 2			
	" Miscellaneous	...	...	22 8 6			
				1885 3 6			
	Index—						
	Salaries	...	...	92 9 5			
	Printing and Paper	...	...	235 6 4			
	Binding and Distribution	...	...	21 2 5			
	Miscellaneous	...	...	30 15 8			
				379 13 10			
	Share of Overhead Expenses	...	...	106 6 8			
				2371 4 0			
Abstracts B II:							
	To Editorial Salaries	...	...	341 1 0			
	" Postages	...	...	16 1 5			
	" Abstractors' Fees	...	...	325 19 3			
	" Printing and Paper	...	...	847 19 10			
	" Binding and Distribution	...	...	114 18 0			
	" Miscellaneous	...	...	22 8 6			
				1668 8 0			
	Index—						
	Salaries	...	...	77 6 0			
	Printing and Paper	...	...	189 5 11			
	Binding and Distribution	...	...	16 18 5			
	Miscellaneous	...	...	25 15 3			
				309 5 7			
	Share of Overhead Expenses	...	...	106 6 8			
				2084 0 3			
Abstracts B III:							
	To Editorial Salaries	...	...	211 7 7			
	" Postages	...	...	16 1 5			
	" Abstractors' Fees	...	...	199 6 11			
	" Printing and Paper	...	...	567 16 0			
	" Binding and Distribution	...	...	114 18 0			
	" Miscellaneous	...	...	22 8 6			
				1131 18 5			
	Index—						
	Salaries	...	...	47 19 3			
	Printing and Paper	...	...	148 17 10			
	Binding and Distribution	...	...	13 4 7			
	Miscellaneous	...	...	15 19 4			
				226 1 0			
	Share of Overhead Expenses	...	...	106 6 8			
				1464 6 1			
				£5919 10 4			
				1876 13 2			
				50 0 0			
				3992 17 2			
	By Sales of Abstracts	...	...	1873 19 9			
	" Share of Fees and Sundry Sales	...	...	2 13 5			
	" Institute of Chemistry Grant	...	...	...
	" Excess of Expenditure over Income transferred to Society of Chemical Industry	...	...	...

£5919 10 4

APPENDIX II.

The figures given in the appended table show the number of abstracts and pages printed in each section during 1942, together with comparative figures for 1941.

Quarter.	A I.				A II.				A III.			
	1941.		1942.		1941.		1942.		1941.		1942.	
	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.
1st ...	683	46	742	62	308	40	414	62	2065	118	2239	140
2nd ...	1016	70	845	48	381	50	341	44	1893	124	2052	112
3rd ...	858	62	899	44	403	48	371	40	1908	116	2328	110
4th ...	955	68	1108	52	459	56	611	70	3100	186	2394	114
	<u>3512</u>	<u>246</u>	<u>3594</u>	<u>206</u>	<u>1551</u>	<u>194</u>	<u>1737</u>	<u>216</u>	<u>8966</u>	<u>544</u>	<u>9013</u>	<u>476</u>

Quarter.	B I.				B II.				B III.			
	1941.		1942.		1941.		1942.		1941.		1942.	
	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.
1st ...	1010	58	1466	88	775	52	921	68	708	42	779	48
2nd ...	986	66	1055	52	706	52	897	56	709	42	590	32
3rd ...	1387	84	1258	56	841	58	958	52	592	40	454	24
4th ...	1262	74	1564	74	934	64	926	50	768	52	796	36
	<u>4645</u>	<u>282</u>	<u>5343</u>	<u>270</u>	<u>3256</u>	<u>226</u>	<u>3702</u>	<u>226</u>	<u>2777</u>	<u>176</u>	<u>2619</u>	<u>140</u>

APPENDIX B.**ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE, 1942.**

A considerable increase in the use of the Library during the past year has to be recorded. Attendances show an increase of 1,584 over last year and the number of books borrowed an increase of 1,000, bringing the total to pre-war level. 400 more books were issued by post than last year, the number being far in excess of any previous year.

Enquiries by telephone, numbering 1099, showed an increase of 218 over those in 1941.

Photostat copying has reached the highest figure since 1930, the number of pages copied (1760) being 810 more than last year.

The spread of the war has further reduced the number of periodicals received, but books and pamphlets show increases, as will be seen from the analysis below.

The total number of volumes added was 497. There are now 45,127 volumes in the Library, consisting of 13,452 books and 31,675 bound volumes of periodicals.

Analysis.

	Attendances.	Books borrowed.	Books added.	Volumes of periodicals.	Pamphlets.
1942	5420	5858 (2542 by post)	195	302	208
1941	3836	4858 (2142 by post)	90	347	163

The Library suffered a great loss in September by the sudden death of Mr. F. W. Clifford, who had held the office of Librarian with such distinction since 1903. It was decided not to fill the vacancy thus caused during the period of the emergency, but to appoint the Sub-Librarian, Mr. Cummins, as Acting Librarian for the period.

As a step towards helping readers who wish to consult German journals published during the war, which have not been received in the Library, arrangements have been made to acquire microfilms of the "Annalen" and "Berichte," and a microfilm reader has been allotted to the Library, through the courtesy of a Committee of the Royal Society.

Losses of books in the post have now made it necessary that all books borrowed by post shall be registered.

Among the 90 books presented to the Library were 40 from Professor R. H. A. Plimmer, and 4 of special historical interest from Dr. Alexander Scott, F.R.S. To these gentlemen and all others who have enriched the Library by their gifts, the Committee wishes to record its best thanks, and also to Dr. J. A. Lloyd, for his gift of a bronze medal, issued to celebrate the 70th birthday of the late Professor A. R. Hantzsch.

APPENDIX C.

LECTURES, ETC.

Given in London.

19th February. *Tilden lecture* on "Fluorine," by Dr. H. J. Emeléus; 26th March, *Eighth Pedler lecture*, "The Basis of Stereo-Chemistry," by Dr. W. H. Mills; 16th April, *Sir Joseph J. Thomson Memorial lecture*, by the Rt. Hon. Lord Rayleigh (at the Royal Institution); 21st May, *Tilden lecture* on "The Chemistry of the Lignan Group of Natural Products," by Professor R. D. Haworth; 15th October, Meeting at which four papers were read and discussed; 19th November, *Sir William Bragg Memorial lecture*, by Professor J. D. Bernal (at the Royal Institution); and 17th December, *Tilden lecture* on "Recent Developments in the Theory of Reaction Kinetics in Solution," by Mr. R. P. Bell.

Given outside London.

Bristol. 14th May, at the University, *Tilden lecture* on "The Chemistry of the Lignan Group," by Professor R. D. Haworth.

Dundee. 19th January, at University College, *lecture* on "The Structure of Films," by Dr. W. T. Astbury.

Edinburgh. 28th January, at the North British Station Hotel (joint meeting with Local Sections of the Institute of Chemistry and the Society of Chemical Industry), *lecture* on "Synthetical Investigations in the Natural Resin Field," by Professor R. D. Haworth; 6th March, *lecture* on "Chemotherapy," by Mr. S. Ellingworth; 1st December, at the University (joint meeting with the Edinburgh University Chemical Society and local Sections of the Institute of Chemistry and the Society of Chemical Industry), *lecture* on "Molecules and Crystals," by Professor J. M. Robertson.

Glasgow. 16th January, at the Royal Technical College (joint meeting with the Local Sections of the Institute of Chemistry and the Society of Chemical Industry), *lecture* on "Sesquiterpene Ketones," by Professor J. L. Simonsen; 20th February (joint meeting with the Local Sections of the Institute of Chemistry and the Society of Chemical Industry), *Tilden lecture* on "Fluorine," by Dr. H. J. Emeléus; 12th November, at the University (joint meeting with the Andersonian Chemical Society, and the Glasgow University Alchemists' Club), *lecture* on "Thermal Diffusion," by Professor J. Kendall; 4th December, at the Royal Technical College (joint meeting with the Local Sections of the Institute of Chemistry and the Society of Chemical Industry), *lecture* on "X-Ray Study of Coalification and Carbonisation," by Professor H. L. Riley.

Leeds. 10th March, at the University (joint meeting with the Leeds University Chemical Society), discussion on "The Enzymatic Breakdown of Tryptophan to Indole," opened by Drs. H. A. Krebs, F. C. Happold, and J. W. Baker; 12th May, *Eighth Pedler Lecture* on "Recent Progress in Stereochemistry," by Dr. W. H. Mills; 12th October, *lecture* on "Radioactive Isotopic Indicators," by Dr. F. Fairbrother.

Liverpool. 12th March, at the University (joint meeting with the Liverpool University Chemical Society), *lecture* on "Some Problems in the Chemistry of Macro-Molecules," by Professor M. G. Evans; 21st November, at Reece's Restaurant (joint meeting with the local section of the Institute of Chemistry), *lecture* on "Chemical Education in the Post-War Period," by Dr. R. A. Morton.

Manchester. 17th January, at the University (joint meeting with the Society of Chemical Industry, the Institute of Chemistry and the University of Manchester Chemical Society), *lecture* on "The Chemistry of Hashish," by Professor A. R. Todd, F.R.S.; 21st March (joint meeting with the Institute of Chemistry), paper on "The Application of X-Ray Diffraction Methods to Problems of Molecular Structure," read by Professor J. M. Robertson; 17th October, at the University (joint meeting with the Institute of Chemistry), *lecture* entitled "Aluminium Chloride as an Agent of Isomerisation," by Dr. G. Baddeley; 5th December, at the University (joint meeting with the Institute of Chemistry), *lecture* entitled "Radioactive Isotopic Indicators," by Dr. F. Fairbrother.

North Wales. At University College, Bangor (joint meetings with the University College of North Wales Chemical Society), 6th March, *lecture* on "Soaps and Related Colloids," by Mr. C. R. Bury; 27th November, *lecture* on "Absorption Spectra as an Aid to Research in Organic Chemistry," by Dr. A. E. Gillam.

Nottingham. 5th March, at University College (joint meeting with the University College Physical and Chemical Society), *lecture* on "The Propylbenzene Unit in Biosynthesis," by Professor R. D. Haworth.

Sheffield. At the University (joint meetings with the Sheffield University Chemical Society), 27th February, *lecture* on "The Constitution of Starch," by Professor E. L. Hirst; 20th November, *lecture* on "Some Kinetic Problems in Heterogeneous Systems," by Dr. E. A. Moelwyn-Hughes.

South Wales. At University College, Cardiff (joint meetings with the Local Sections of the Institute of Chemistry and Society of Chemical Industry), 27th February, *lecture* on "Chemical Method of Attacking Certain Biological Problems," by Professor H. V. A. Briscoe; 27th March, *lecture* on "The Chemistry of Soils," by Mr. L. T. Lowe; 14th November, *lecture* on "The Mechanism of Polymerisation," by Professor H. W. Melville.

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1942.

PUBLICATIONS FUND.

1941		1942		1941		1942	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
2704	14 4	2309	17 6	1156	5 3	1156	5 3
8	5 0	9	7 10	85	12 6	...	...
618	7 3	733	0 6	13	12 7	...	...
126	1 4	148	0 5	262	11 2	...	...
2	6 0	2	11 3	408	14 11	...	...
				337	0 11	...	...
532	15 5	696	13 4	10	7 9	...	...
72	10 0	132	19 3	361	12 4	...	...
605	5 5	849	12 7	31	8 1	...	...
178	8 5	259	17 11	4973	5 6	...	...
13	2 6	589	14 8	1928	5 7	...	...
1000	0 0	22	12 0	1300	0 0	...	...
50	0 0	1000	0 0	1800	0 0	...	...
		50	0 0	100	0 0	...	...
1063	2 6	50	0 0	1042	5 11	...	...
300	0 0					...	...
400	0 0					...	...
23	4 0					...	...
223	18 9					...	...
182	11 4					...	...
5262	9 6					...	...
£11,343	17 0			£11,343	17 0		
						£11,678	6 9

Income.

Expenditure.

To Publication Sales (including back numbers):
 Journals and Proceedings
 Collectors Index, Vols. I-VI
 Annual Reports on Progress of Chemistry
 Authors' Extra Reprints
 Other Publications
 Proceeds of Advertisements:
 Journal
 Annual Reports
 Less Commission
 Donations:
 Fellows
 Chemical Council
 in "Journal" for Summaries to Papers
 Government Publications Grant (through the Royal Society)
 Allocation from the Rockefeller Grant (through the Royal Society)
 Transfer from Hilden Lecture Fund
 Dividends on Investments
 Income Tax recovered
 Transfer from General Purposes Account (the balance of expenditure on publications)

By Expenses on account of Journal:
 Editorial Salaries
 Superannuation
 Editorial Postages
 Printing and Paper
 Binding and Distribution
 Authors' Reprints
 Miscellaneous
 Overhead Expenses (proportion)
 War Damage Insurance
 Balance of Expenditure on Abstracts A I and A II
 Agreed contribution to Abstracts A III
 Transfer to Special Reserve Fund
 Transfer for Quinquennial Index, 1938-1942
 Annual Reports on the Progress of Chemistry: Printing and Honoraria

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1942.

CENTENARY FUND.

1941		1942		1942			
		<i>Income.</i>		<i>Expenditure.</i>			
£	s. d.	£	s. d.	£	s. d.		
25	1 11	To Interest on Deposit in Post Office Savings Bank and London Savings Bank	25	7 11	By Balance, being Excess of Income over Expenditure carried to Balance Sheet	25	7 11
<u>£25 1 11</u>		<u>£25 7 11</u>		<u>£25 7 11</u>			

STAFF PENSIONS FUND

1941		1942		1942			
		<i>Income.</i>		<i>Expenditure.</i>			
£	s. d.	£	s. d.	£	s. d.		
137	7 8	To Transfer from General Purposes Account	200	0 0	By Pensions paid during 1942	92	10 0
34	14 4	" Dividends on Investments	62	12 5	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	194	0 11
7	18 0	" Income Tax recovered	23	18 6			
<u>£180 0 0</u>		<u>£286 10 11</u>		<u>£286 10 11</u>			

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND

1941		1942		1942			
		<i>Income.</i>		<i>Expenditure.</i>			
£	s. d.	£	s. d.	£	s. d.		
27	17 9	To Dividends on Investments	27	5 2	By Harrison Prize	150	0 0
21	6 9	" Income Tax recovered	25	2 0	" Harrison Plaque	8	8 0
8	11	" Interest on Deposit	2	1 8	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet		
		" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	105	19 2			
<u>£49 13 5</u>		<u>£158 8 0</u>		<u>£158 8 0</u>			

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1942.

SPECIAL LECTURES FUND.

1941		1942		1941		1942	
£	s.	£	s.	£	s.	£	s.
34	12	33	18	50	0	50	0
8	0	4	0	0	0	0	0
9	16	11	11	10	0	10	0
6	0	8	5	0	0	0	0
5	8	5	8	0	0	0	0
0	0	0	0	0	0	0	0
£50	10	£45	17	£50	10	£45	17
0	0	0	0	0	0	11	0

Income.		Expenditure.	
To Dividends on Investments	...	By Honorarium	...
" Income Tax recovered	...	Lecture Expenses	...
" Interest on Deposit	...	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...
" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	...		...

THE FARADAY LECTURE FUND.

1941		1942	
£	s.	£	s.
7	1	6	11
1	1	11	2
5	11	6	11
7	0	2	0
£12	12	£13	2
8	0	5	0

Income.		Expenditure.	
To Dividends on Investments	...	By Balance, being Excess of Income over Expenditure carried to Balance Sheet	...
" Income Tax recovered	...		...

THE TILDEN LECTURE FUND.

1941		1942	
£	s.	£	s.
43	4	42	9
3	0	7	0
25	19	30	11
4	0	0	0
5	0	3	11
0	0	0	0
£12	12	£22	15
8	0	8	0
£69	8	£96	0
7	0	2	0

Income.		Expenditure.	
To Dividends on Investments	...	By Honoraria	...
" Income Tax recovered	...	Lecture Expenses	...
" Interest on Deposit	...	" Transfer to Publications Fund, for cost of publication of Lectures	...
" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	...	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...

SCHEDULE OF INVESTMENTS.

GENERAL PURPOSES.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1942.	
	£	s. d.	£	s. d.
£3029 6s. 9d. 5% Conversion Stock, 1944/64	3491	2 8	3769	19 1
£11,426 16s. 0d. 3½% Conversion Stock, 1961, or after	8874	2 2	12,198	1 1
£600 4% Funding Stock, 1960/90	480	0 0	682	10 0
£408 2d. 3% Funding Stock, 1959/69	394	11 5	414	4 11
£100 3% Savings Bonds, 1956/65	100	0 0	101	5 0
£1096 6s. 2d. Union of South Africa 3% Stock, 1954/64	1067	12 10	1100	13 11
£1520 14s. 3d. Cardiff Corporation 3% Stock, 1914/64	1650	0 0	1505	10 1
£2400 Bristol Corporation 2½% Debenture Stock, 1957	2070	2 0	2232	0 0
£1200 Leeds Corporation 3% Stock	1143	1 0	1128	0 0
£787 London, Midland and Scottish Railway 4% Debenture Stock	839	3 7	842	1 10
£715 London, Midland and Scottish Railway 4% Preference Stock	3572	4 4	2075	8 11
£1200 London and North Eastern Railway 3% Debenture Stock	1033	11 0	996	0 0
	£24,715	7 0	£27,045	14 10

PUBLICATIONS FUND.

£5260 18s. 9d. 3½% Conversion Stock, 1961, or after	3645	12 8	5616	2 1
£3173 1s. 6d. 5% Conversion Stock, 1944/64	3199	18 7	3296	0 7
£1000 3% Savings Bonds, 1955/65	1000	0 0	1012	10 0
£603 London, Midland and Scottish Railway 4% Guaranteed Stock	457	12 7	618	1 6
£817 P. & O. Steam Navigation Co. Deferred Stock	2060	0 0	1286	15 6
	£10,363	3 10	£11,829	9 8

RESEARCH FUND.

£4498 11s. 0d. 5% Conversion Stock, 1944/64	4267	4 10	4672	17 4
£10,177 16s. 1d. 3½% Conversion Stock, 1961, or after	8833	2 3	10,874	16 2
£806 Victoria 3% Stock, 1929/49	706	6 2	773	15 2
£1000 London and North Eastern Railway 4% 2nd Guaranteed Stock	1010	0 0	895	0 0
£1034 Great Western Railway 2½% Debentures	1049	15 11	775	10 0
£1483 London, Midland and Scottish Railway 4% Debenture Stock	1508	3 6	1586	16 2
£1122 Metropolitan Water Board 3% "B" Stock	1002	16 9	1088	6 10
	£18,377	9 5	£20,667	1 8

SPECIAL RESERVE FUND.

£1000 3% National Defence Bonds	1000	0 0	1020	0 0
£2447 7s. 10d. 2½% National War Bonds, 1946/48	2400	0 0	2468	16 1
£2400 2½% National War Bonds, 1949/51	2400	0 0	2397	0 0
£1500 3% Savings Bonds, 1955/65	1500	0 0	1518	15 0
	£7350	0 0	£7404	11 1

SPECIAL PUBLICATIONS FUND.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1942.	
	£	s. d.	£	s. d.
£2115 8s. 10d. 3½% Conversion Stock, 1961, or after	1800	0 0	2238	4 8

STAFF PENSIONS FUND.

£683 6s. 1d. 3½% Conversion Stock, 1961, or after	527	13 9	729	8 5
£371 17s. 1d. 5% Conversion Stock, 1944/64	375	0 0	386	5 2
£2100 2½% National War Bonds, 1946/48	2100	0 0	2118	7 6
£170 3% Savings Bonds, 1955/65	170	0 0	172	2 6
	£3172	13 9	£3406	3 7

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

£61 15s. 8d. 3½% Conversion Stock, 1961, or after	50	1 5	65	19 1
£1255 London, Midland and Scottish Railway 4% Debenture Stock	1051	6 6	1342	17 0
	£1101	7 11	£1408	16 1

SPECIAL LECTURES FUND.

£1299 9s. 4d. 3½% Conversion Stock, 1961, or after	1000	0 0	£1387	3 7
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THE FARADAY LECTURE FUND.

£374 19s. 0d. 3½% Conversion Stock, 1961, or after	369	4	£400	5 2
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THE TILDEN LECTURE FUND.

£419 4s. 10d. 3% Funding Stock, 1959/69	386	12 10	425	10 7
£86 National Provincial Bank Shares, £5 each, £1 paid "B"	678	18 0	669	12 0
£592 London Transport "B" 5% Stock	625	2 0	619	15 7
£220 Metropolitan Water Board (Kent Water Works) 3% Deb. Stock	188	2 0	210	2 0
	£1878	14 10	£1925	0 2

F. P. DUNN, Treasurer.

W. B. KREN & Co.,
Chartered Accountants.

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

224, REGENT STREET, W. 1.
10th March, 1943.