

ONE HUNDRED AND NINTH ANNUAL GENERAL MEETING.

THE One Hundred and Ninth Annual General Meeting of The Chemical Society was held in the Chemistry Department, King's Buildings, West Mains Road, Edinburgh, at 12 noon on Wednesday, 29th March, 1950. The President, Sir Ian Heilbron, was in the Chair.

The notice convening the Meeting was read.

The Report of Council for 1949 which had been circulated to Fellows attending the Meeting was presented by Professor D. H. Hey who referred to the continued growth of the Society during the past year. Although this was satisfactory, he warned that the "turnover" of Fellows was higher than in the past and it was important to lose no opportunity of recruiting new Fellows for the Society.

He referred also to the increase in the size of the *Journal* and to the satisfactory progress in reducing the delays of publication. By the purchase of back numbers, and by arrangements for reprinting the early volumes of the *Journal*, the Society would shortly be able to supply almost a complete set of back issues of the *Journal* from 1848.

In presenting the Accounts for 1949, the Treasurer stated that the expenditure for the year exceeded income by over £9000. This was almost entirely due to the growing expenditure on publications. Had not the Council taken steps during the year to increase revenue, the deficit would have been considerably larger. The Special Reserve Fund would meet the loss for 1949; but that part of the Fund allocated for Publications was now exhausted and, if expenditure was to continue at the present level and publication was not to be curtailed, the Society must increase its income. An appeal to Industry had been launched by the Chemical Council and the Treasurer hoped that support would be forthcoming on a scale sufficient to balance the increased expenditure.

Dr. Neil Campbell proposed the adoption of the Report of Council and the Accounts, and his motion was seconded by Dr. M. Ritchie and carried unanimously.

The following elections to vacancies on Council were announced :

President :

Professor E. K. Rideal.

Vice-President :

Professor R. P. Linstead.

Elected Ordinary Members of Council :

Constituency I :

Dr. J. S. Anderson.
Dr. L. N. Owen.

Constituency IV :

Professor F. E. King.
Professor L. Hunter.

On the motion of Dr. Duncan Taylor, seconded by Dr. G. Aspinall, Messrs. W. B. Keen & Co. were re-appointed Auditors to the Society for 1950.

At the conclusion of the Meeting, a vote of thanks to the Officers and Council, Local Representatives, and others who had served the Society during the year, was proposed by Professor E. L. Hirst, seconded by Dr. T. R. Bolam, and carried with acclamation.

The formal induction of Professor E. K. Rideal as President of the Society took place at the Anniversary Dinner of the Society held on Thursday, March 30th, at the North British Station Hotel, Edinburgh.

REPORT OF COUNCIL FOR 1949.

I. FELLOWSHIP.

1. *Honorary Fellowship.* The following were elected Honorary Fellows of the Society in 1949 :

Dr. C. S. Hudson
Professor H. R. Kruyt

Professor H. S. Taylor
Professor A. W. K. Tiselius

The number of Honorary Fellows is now 29.

2. *Fellowship Statistics.* The Fellowship showed a net increase of 322 during 1949. At December 31st, there were 8195 names on the Register. 675 New Fellows were elected and 26 were reinstated. The Society has lost 60 Fellows by death, 210 by resignation, and 109 names were removed from the register. Of the total Fellowship, 4615 participated in the Joint Subscription Scheme sponsored by the Chemical Council.

3. *Joint Student Facilities.* During 1949, joint student facilities of the Chemical Society and the Society of Chemical Industry were granted by the Chemical Council to 17 persons.

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

G.C.B.

Sir Henry Tizard

O.M.

Sir Robert Robinson

Knight Bachelor

Dr. W. G. Ogg
Dr. J. L. Simonsen

C.B.E.

Dr. J. R. Nicholls
Professor W. Wardlaw

The Council has also congratulated the following to whom awards have been made by the Royal Society :

Professor G. C. Hevesy, <i>Honorary Fellow</i>	Copley Medal
Professor R. A. Peters	Royal Medal
Professor A. R. Todd	Davy Medal

5. *Fellows who have completed 70, 60, and 50 years of Fellowship.* The congratulations of the Society have been conveyed personally by the President to Mr. William Stone, who completed 70 years of Fellowship on April 17th, 1949. Announcements have also been made at Ordinary Scientific Meetings, and have been published in the *Proceedings*, of the congratulations of the Society that have been sent to Fellows who during the year completed 60 and 50 years of Fellowship.

6. A list of Honorary Fellows and Fellows corrected to December 10th, 1948, was issued during the year, and copies * are available from the General Secretary.

* Price two shillings and sixpence.

II. PUBLICATIONS.

1. *Journal*. During the year 739 scientific communications were received, 13 were declined, and 6 withdrawn. The *Journal* contained 888 items, made up as follows (all the figures quoted in this Report include those for the two Supplementary Issues) :

Papers (General, Physical, and Inorganic)	147
,, (Physical Organic)	125
,, (Organic)	530
Notes	68
Lectures and Addresses	6
Obituary Notices	11
Annual General Meeting.....	1

The Scientific Communications from overseas (141, including 9 jointly with British laboratories) increased both in total number and in proportion; contributions were received from : Australia (47), Austria (1), Canada (5), Egypt (25), France (6), Germany (1), Hungary (2), India (3), Irish Republic (6), Israel (4), New Zealand (15), Poland (2), South Africa (10), Spain (1), Sweden (3), and U.S.A. (10). Contributions from industrial laboratories totalled 101 (including 14 jointly with academic institutions), and those from industrial research organisations and Government laboratories totalled 42 (including 10 jointly with academic institutions).

The following are some figures relative to the growth of publication :

	1938.	1943.	1947.	1948.	1949.
Scientific communications received	507	208	523	548	739
Published	431	192	375	511	876

Of the 739 papers received during the whole of 1949, 426 were submitted during the last six months of the year. If this rate of submission continues, the *Journal* for 1950 will be about as large as that for 1949, although a considerable part of the 1949 *Journal* was devoted to overhauling arrears of publication.

The arrangements made in 1948 for an increased rate of publication in 1949 functioned satisfactorily; papers received in January 1949 began appearing in the June *Journal*, and by the end of the year there were no arrears of publication. In the December *Journal* the average time between receipt of a manuscript and its publication was about four to five months (plus about three weeks if the paper contained illustrations), and of this time two to three weeks were absorbed in the preparation of preprints. It is hoped that the time between the receipt of a paper and its publication can be further reduced by a few weeks as the arrangements for publication of these larger monthly issues are perfected; but no very great reduction can be effected under present conditions.

The progress in 1949 was possible only through the unfailing co-operation of the Society's printers, Messrs. Richard Clay & Co., Ltd.

2. *Annual Reports and Quarterly Reviews*. The *Annual Reports* for 1948 were distributed during September. It is hoped to distribute the *Annual Reports* for 1949 during July 1950.

Volume I (1947) of *Quarterly Reviews* was reprinted and became available during the year.

III. MEETINGS.

1. *Scientific Meetings*. The Society held 14 Meetings in London during 1949. These included 6 Lectures and 3 organised Discussions. At the other 5 Meetings, 12 papers were read and discussed.

109 Meetings arranged by Local Representatives on behalf of the Society, or in conjunction with other societies, were held outside London. In addition, Fellows were able to attend, under arrangements made locally, a number of meetings organised by other bodies.

Official Scientific Meetings of the Society were held at Newcastle on January 28th and Exeter on May 20th.

Details of all Meetings are given in Appendix A.

2. *Anniversary Meetings.* The 108th Annual General Meeting, The Presidential Address, and the Anniversary Dinner were held in London on March 31st. In conjunction with these meetings, a Discussion on "The Chemistry of the Heavy Elements," held at Oxford on March 28th—30th, and a Symposium on "The Use of Radioactive Tracers in Chemistry," held in London on April 1st, were organised by the Society and the Chemistry Division of the Atomic Energy Research Establishment.

A Report of the Annual General Meeting was published in the *Journal* for May. The papers presented at the meetings at Oxford and London were published in a Supplementary Issue of the *Journal*.

3. *Centenary Fund.* The income arising from the Centenary Fund has enabled the Society to invite a number of chemists from overseas to lecture and to take part in discussion meetings.

IV. LIBRARY.

The Annual Report of the Joint Library Committee for 1949 appears as Appendix B to this Report.

V. OTHER ACTIVITIES.

1. *Corday-Morgan Medal.* Rules governing the award of the Medal and Prize were approved by Council and published in the *Proceedings* for April.

The medal is to be awarded annually to the British Chemist, under thirty-six years of age who has, during the year for which the award is made, published the most meritorious contribution to experimental chemistry.

The award consists of a silver medal, designed by Mr. Percy Metcalfe, C.V.O., and a cash prize which will, it is expected, amount to not less than £150. Consideration will be given, at the end of 1950, to an award in respect of the year 1949.

2. *Flintoff Medal and Prize.* As stated elsewhere in the Report the bequest of the late Mr. R. J. Flintoff has been received and has been invested. The income will be accumulated until sufficient funds are available to institute the award.

3. *Copyright.* The Society has subscribed to a declaration, drawn up by the Royal Society and designed to make it easier for Scientists to obtain a single copy, for research purposes, of material which has appeared in the Society's Publications.

4. *Early Volumes of the Journal.* The Society has entered into an agreement for Volumes 1—23 of the *Journal*, 1848—1870, which are out of print, to be reprinted and published by Messrs. Butterworths (Scientific Publications), Ltd. The new edition is expected to be available in the autumn of 1950.

5. *Research Grants.* Grants from the Research Fund amounting to £775 2s. have been authorised for payment to 37 applicants.

6. *The Chemical Council and the Bureau of Abstracts.* The Reports for the year 1948 of the Chemical Council and of the Bureau of Abstracts have now been issued, and copies are available from the General Secretary.

7. *Accommodation.* Acute shortage of accommodation has continued to present serious difficulties to the Society. However, a new office has been formed, by conversion of part of the basement, and this has enabled the Society to restore to other bodies the privilege of holding scientific meetings in the Society's Meeting Room. Improved cloak-room facilities and a new central-heating system have been installed in the Society's apartments.

VI. ADMINISTRATION.

1. *Council.* At the Annual General Meeting on March 31st, 1949, the following were declared elected :

Vice-Presidents	Professor J. W. Cook, Professor W. Wardlaw.
Honorary Secretary	Professor H. Burton.
Ordinary Members of Council	Professor C. E. H. Bawn, Dr. F. S. Dainton, Dr. E. G. V. Percival, Dr. R. Spence, Pro- fessor M. Stacey, Dr. A. I. Vogel, Mr. J. D. Rose, Dr. J. Walker, Dr. W. A. Waters.

2. *Local Representatives.* The Council received with regret the resignation of a number of Local Representatives, and the following new appointments were made :

Edinburgh	Dr. Neil Campbell in place of Dr. E. G. V. Percival.
Glasgow.....	Dr. J. C. Speakman in place of Dr. J. D. Loudon.
Irish Republic	Dr. V. C. Barry in place of Professor T. S. Wheeler.
Manchester	Dr. M. A. T. Rogers in place of Dr. J. C. Withers.

Dr. D. O. Jordan has resumed his duties as Local Representative for Nottingham after twelve months' absence. The Council has also appointed Dr. M. U. S. Sultanbawa and Dr. M. I. D. Chughtai as the Society's first Local Representatives in the Dominions of Ceylon and Pakistan respectively.

3. *Editor.* The Council appointed Dr. R. S. Cahn as Editor of the Society's Publications as from March 1st, 1949.

VII. FINANCE.

1. *Investments.* The following alterations in the Society's Investments have been made during the year :

£259 14s. 9d. standing to the credit of Life Composition Fees in the General Purposes Account, invested in 3% British Transport Guaranteed Stock 1978/88.

£1,000, the W. H. Perkin Bequest, on the Publications Fund invested in 3% Southern Rhodesia Stock, 1971/73.

£150 on the Special Lectures Fund invested in 3% British Transport Guaranteed Stock, 1978/88.

£70 on the Faraday Lecture Fund invested in 3½% Conversion Stock, 1961, by the transfer of stock from the Staff Pensions Fund.

£4,500 on the Centenary Fund invested in 3% New Zealand Stock, 1973/77, and 2½% Savings Bonds, 1964/67.

£1,000 on the Robert John Flintoff Trust invested in 3% British Transport Guaranteed Stock, 1978/88, and 3½% Conversion Stock, 1961.

The following stocks on Special Reserve Fund were sold in order to provide funds for transfer to the General Purposes Account for meeting the cost of publications :

£2,400 2½% National War Bonds, 1949/51.

£3,700 2½% National War Bonds, 1952/54.

and £569 4s. 2d. 3½% Conversion Stock on Staff Pensions Fund (including the stock sold to the Faraday Lecture Fund) was realised.

2. *Contributions.* The Council gratefully acknowledge the following contributions towards the cost of the Society's publications :

£900 as a Supplementary grant for 1948 and £2,000 for 1949 from the Government Scientific Publications Grant-in-Aid, distributed by the Royal Society.

£1,333 6s. 8d. from the Chemical Council, representing part of the income received during the War and reserved for the publication of scientific papers accumulated during that period, and £1,000 as a grant for 1949.

A grant from the Ministry of Supply of half the cost of publication of the Supplementary issue of the *Journal* containing the papers discussed at the Symposium held at Oxford and in London in conjunction with the Anniversary Meetings.

The Council also gratefully acknowledge donations from Dr. A. F. Campbell, Dr. D. Holmes, Pharmaceutical and Allied Chemicals Disposals, Ltd., and others, as well as contributions received for the Centenary Fund under deeds of covenant.

3. *Library.* The Council records its thanks for a contribution of £200 received through the Royal Society from the Government Scientific Publications Grant-in-Aid, towards the cost of capital expenditure on the Library, and for the following contributions, on a membership basis, received through the Chemical Council towards the maintenance costs of the Library :

	£	s.	d.
The Royal Institute of Chemistry	1188	19	4
The Society of Chemical Industry	638	1	0
The Faraday Society	132	2	2
The Society of Public Analysts and Other Analytical Chemists	101	3	9
The Biochemical Society	132	2	2

The Chemical Society's share of the maintenance costs of the Library amounted to £618 7s. 6d., and in addition the Society has contributed over £900 towards the purchase of new books and other Capital expenditure on the Library.

Contributions towards the maintenance expenses have also been received from other sources as follows :

	£	s.	d.
Association of British Chemical Manufacturers	100	0	0
Institute of Brewing	50	0	0
Genatosan, Ltd.	25	0	0
Society of Dyers and Colourists	10	10	0

4. *Increased Prices of Publications.* The increasing cost of producing the Society's publications has compelled the Council to increase during the year, to £6 per annum, the price at which the *Journal* is sold to non-Fellows; the *Annual Reports on the Progress of Chemistry* was increased to £1 5s. 0d. per volume, and the *Quarterly Reviews* to £1 10s. 0d. per annum.

The Council also found it necessary to ask Fellows to bear a proportion of the increased costs, and the prices of the publications on the schedule were increased as from January 1st, 1950.

5. *Advertisements.* During the year, Messrs. Walter Judd, Ltd., were appointed the Society's agents for procuring advertisements for the Society's publications.

VIII. REPRESENTATION ON OTHER BODIES.

The Society's representatives at December 31st, 1949 were as follows :

Association of British Chemical Manufacturers :

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

Barker Committee :

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

Bristol University Court :

Sir Norman Haworth.

British National Committee for Chemistry :

Sir Norman Haworth, Sir Cyril Hinshelwood, Professor M. Stacey.

British National Committee for Crystallography :

Dr. G. M. Bennett.

British Standards Institution. Technical Committees :

- M/1. Units and Technical Data : Professor C. W. Davies.
- M/4. Letter Symbols : Professor C. W. Davies.
- C/17. Viscosity : Dr. A. E. Dunstan.
- C/18. Chemical Symbols and Abbreviations : Professor C. W. Davies.
- C/34. Standardisation of pH Scale : Professor H. T. S. Britton.
- CHE/36. Chemicals for Electroplating : Dr. U. R. Evans.
- DAC/-. Standards for Dairying Chemistry : Mr. Eric Voelker.
- LBC/-. Scientific Glassware and Related Laboratory Apparatus : Dr. G. R. Davies.
- LBC/2/1. 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. H. D. K. Drew, Professor H. B. Nisbet.
- LGE/19. Colour Terminology : Dr. F. M. Hamer.
- PCC/1. Nomenclature for Insecticides : Dr. R. L. Wain.

Bureau of Abstracts.

Directors and Members : Dr. G. M. Bennett, Mr. F. P. Dunn, Dr. E. B. Hughes, Dr. E. H. Rodd.

Members : Mr. R. P. Bell, Professor H. V. A. Briscoe, Dr. A. H. Cook, Professor W. Wardlaw.

Chemical Council :

The Treasurer, Sir Ian Heilbron, Professor D. H. Hey, Dr. R. P. Linstead.

City and Guilds of London Institute :

The President.

Faraday Society. Colloid and Biophysics Committee :

Dr. P. Johnson.

Joint Library Committee :

Dr. A. H. Cook, Dr. C. H. Desch, Mr. M. B. Donald, Dr. F. Fairbrother, Dr. P. Haas, Dr. T. A. Henry, Dr. J. R. I. Hepburn, Professor D. H. Hey, Professor E. D. Hughes, Dr. Harold King, Professor G. A. R. Kon, Dr. H. N. Rydon, Dr. F. C. Tompkins, Professor E. E. Turner.

Lawes Agricultural Trust :

Committee of Management : Sir Norman Haworth.

Parliamentary and Scientific Committee :

The President, Professor D. H. Hey.

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, Professor C. W. Davies.

Scientific Societies Accommodation Committee :

The President.

Yorkshire Council for Further Education :

Advisory Committee for Chemistry in South and East Yorkshire : Professor R. D. Haworth, Professor Brynmor Jones.

IX. ACKNOWLEDGMENTS.

The Council expresses its cordial thanks to the many Fellows who have served the Society in various ways during the year, including Members of Committees, Referees of papers submitted for publication, Contributors to the *Annual Reports* and *Quarterly Reviews*, Local Representatives, and those who have given Lectures and opened Discussions.

APPENDIX A.**MEETINGS HELD DURING 1949.****IN LONDON.**

Unless otherwise stated all meetings were held in the Rooms of the Society at Burlington House.

January 20th, at the Royal Institution, *Tilden Lecture*, "Three- and Four-membered Heterocyclic Rings", by Professor F. E. King; February 3rd, *Johannes Nicolaus Brønsted Memorial Lecture*, by Mr. R. P. Bell; February 17th, at Imperial College of Science and Technology, *Centenary Lecture*, "Recent Developments in the Chemistry of Macrocyclic Compounds", by Professor Dr. V. Prelog; March 3rd, *Meeting* for reading papers; March 17th, *Discussion*, "Aspects of Heterogeneous Catalysis", arranged by Dr. R. Holroyd. Part I, "Theoretical Basis", by Mr. D. A. Dowden; Part II, "Hydrogenation by Binary Alloys", by Dr. P. W. Reynolds; April 1st, at the Institution of Civil Engineers, *Discussion*, "The Use of Radioactive Tracers in Chemistry"; April 28th, *Meeting* for reading papers; May 12th, at the Royal Institution, *Centenary Lecture*, "The Chemistry and Biochemistry of some Mammalian Secretions and Excretions", by Dr. E. Lederer; May 26th, *Meeting* for reading papers; October 20th, at Imperial College of Science and Technology, *Tilden Lecture*, "Acetylene and Acetylenic Compounds in Organic Synthesis", by Professor E. R. H. Jones; November 3rd, *Meeting* for reading papers; November 17th, at the Institution of Mechanical Engineers, *Centenary Lecture*, "Radiation-induced Polymerisation", by Dr. M. Magat; November 30th, at the Royal Institution, *Symposium*, "Fluorine Chemistry", arranged by Professor H. J. Emeléus; December 15th, *Meeting* for reading papers.

OUTSIDE LONDON.

Aberdeen. Joint meetings with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry, in the Chemistry Department, Marischal College; January 14th, *Lecture*, "Sulphide Precipitation and the Law of Mass Action", by Mr. R. Belcher; January 27th, *Lecture*, "Application of Dyestuffs to Materials other than Textiles", by Mr. J. G. Grundy; February 25th, *Lecture*, "Some Factors influencing the Strengths of Acids and Bases", by Professor D. H. Everett; March 10th, *Lecture*, "Recent Advances in Seaweed Technology", by Dr. F. N. Woodward; October 27th, *Lecture*, "Peat", by Dr. G. K. Fraser; November 11th, *Tilden Lecture*, "Acetylene and Acetylenic Compounds in Organic Synthesis", by Professor E. R. H. Jones; December 2nd, *Lecture*, "Some Aspects of the Work at Rothamsted", by Sir William G. Ogg; December 12th, *Lecture*, "Some Recent Advances in the Chemistry of Fluorine Compounds", by Professor H. J. Emeléus.

Birmingham. At the University (joint meetings with the University Chemical Society): March 18th, *Lecture*, "Some Aspects of Stereochemistry", by Dr. F. G. Mann; October 21st, *Lecture*, "The Oxidation of Aldehydes in Solution", by Professor C. E. H. Bawn; December 2nd, *Lecture*, "Chemical Constitution and Biological Activity", by Dr. W. A. Sexton.

Bristol. At the University (joint meetings with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry): February 10th, *Lecture*, "The

Stability of Emulsions", by Dr. A. S. C. Lawrence; November 3rd, *Lecture*, "What is a Chemical Bond?", by Professor C. A. Coulson.

Edinburgh. January 13th, at the North British Station Hotel (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Amphipathic Behaviour in Colloid Systems", by Dr. T. R. Bolam; February 8th, at the University (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry and the University Chemical Society), *Lecture*, "Some Recent Advances in the Chemistry of Natural Products", by Professor R. D. Haworth; at the North British Station Hotel (joint meetings with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry): February 24th, *Lecture*, "Analytical Chemistry, Chemical Analysis, and the Analyst", by Mr. R. C. Chirnside; March 17th, *Lecture*, "Recent Trends in the Industrial Utilisation of Agricultural Products in North America", by Dr. F. N. Woodward; October 20th, *Lecture*, "The Cow—Mankind's Benefactress", by Mr. E. B. Anderson; November 17th, *Lecture*, "Radical Chemistry applied to Problems in the Hydrocarbon, Drying Oil, and Rubber Fields", by Dr. E. H. Farmer; December 8th, at the Y.M.C.A. Hall (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), Scientific Film display.

Exeter. At Washington Singer Laboratories: May 6th and 7th (joint meetings with British Rheologists' Club), *Discussion*, "Suspensions and Sedimentation"; May 20th, Official Meeting of the Society and *Lecture*, "A New Approach to the Synthesis of Azoles and Purines", by Sir Ian Heilbron; October 14th (joint meeting with University College Scientific Society), *Lecture*, "Diffraction of Neutrons by Crystals", by Dr. Kathleen Lonsdale; November 25th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Corrosion Inhibitors", by Dr. U. R. Evans; December 2nd (joint meeting with University College Scientific Society), *Lecture*, "Catalysis and the Surface Levels of Copper Oxide", by Professor W. E. Garner.

Glasgow. February 21st, at the Royal Technical College, Annual General Meeting of the Local Section and *Centenary Lecture*, "Recent Developments in the Chemistry of Macrocyclic Compounds", by Professor V. Prelog; at the University: March 11th, *Lecture*, "The Head-to-tail Isoprene Rule and its Limitations in Terpene Chemistry", by Professor G. R. Clemo; October 28th (joint meeting with the Alchemists' Club and the Andersonian Chemical Society), *Lecture*, "The Art of making Sulphate of Ammonia", by Dr. M. P. Applebey; November 25th, *Lecture*, "Modern Theories of Chemical Valency", by Sir John Lennard-Jones.

Hull. At University College: February 24th (joint meeting with the local section of the Royal Institute of Chemistry and University College Scientific Society), *Lecture*, "The Nature of Scientific Convictions", by Professor M. Polanyi; (joint meetings with University College Scientific Society): April 28th, *Lecture*, "Some Recent Developments in the Chemistry of Natural Products", by Professor R. D. Haworth; October 20th, *Lecture*, "The Mechanism of Drug Action", by Professor A. R. Todd; November 10th, *Lecture*, "Surface Films", by Professor N. K. Adam.

Irish Republic. At University College, Dublin (joint meetings with University College Chemical Society and the Werner Society): February 28th, *Lecture*, "Researches on the Chemistry of the Algæ", by Professor T. Dillon; March 7th, *Lecture*, "The Chemistry of Reductone and its Bearing on Sulphanilamide Action", by Professor W. Cocker; at Trinity College, Dublin, March 14th, *Lecture*, "The Development of the Periodic Table", by Professor T. S. Wheeler; May 6th (joint meeting with the Werner Society), *Lecture*, "Recent Progress in the Chemistry of Pectin and Hemicelluloses", by Professor E. L. Hirst; May 16th, *Centenary Lecture*, "The Chemistry and Biochemistry of some Mammalian Secretions and Excretions", by Dr. E. Lederer; May 27th (joint meeting with the Werner Society), *Lecture*, "A Chapter in Inorganic Stereochemistry", by Professor W. Wardlaw; October 21st (joint meeting with the Werner Society), *Lecture*, "Methods of Biological Assay", by Mr. A. L. Bacharach; November 2nd, at University College, Dublin, *Lecture*, "Some Biologically Active Phenazine Derivatives", by Mr. J. G. Belton; November 25th, at Trinity College, Dublin (joint meeting with the Werner Society),

Lecture, "The Head-to-tail Isoprene Rule and its bearing on Terpene Chemistry", by Professor G. R. Clemon.

Leeds. At the University: March 15th (joint meeting with the University Chemical Society), Debate followed by *Lecture*, "Structural Relationships amongst the Polysaccharides", by Professor E. L. Hirst; May 20th, *Centenary Lecture*, "The Chemistry and Biochemistry of Some Mammalian Secretions and Excretions", by Dr. E. Lederer.

Liverpool. At the University: February 10th, *Lecture*, "Recent Advances in the Physical Chemistry of High Polymers", by Dr. G. Gee; February 24th, *Centenary Lecture*, "Some Recent Advances in the Chemistry of Macrocyclic Compounds", by Professor Dr. V. Prelog; October 27th, *Lecture*, "Editing for the Chemical Society", by Dr. R. S. Cahn; November 6th, *Centenary Lecture*, "Radiation-induced Polymerisation", by Dr. M. Magat; December 15th, *Lecture*, "The Biological Oxidation of certain Aromatic Compounds with Special Reference to the Bacterial Cleavage of the Benzene Ring", by Dr. W. C. Evans.

Manchester. January 7th, at the Engineer's Club (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Production of Acetylene from Hydrocarbons", by Dr. H. Steiner; February 22nd, at the University, *Centenary Lecture*, "Recent Developments in the Chemistry of Macrocyclic Compounds", by Professor Dr. V. Prelog; February 24th, at the Engineers' Club (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Some Recent Developments in Inorganic Chromatography", by Dr. R. P. Linstead; March 10th, at the University, *Meeting* for reading papers; March 24th, at the Engineers' Club (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "The Chemistry of the Deoxy-sugars", by Professor M. Stacey; October 20th, at the University, *Meeting* for reading papers; November 9th, at the University (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Symposium*, "Some Chemical Aspects of Atomic Energy"; December 2nd, at the Gas Show Rooms (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Some Studies of Oxidation-Reduction Reactions", by Professor M. G. Evans.

Newcastle and Durham. At King's College, Newcastle-on-Tyne: January 14th, *Bedson Club Lecture*, "Chemistry and Atomic Energy", by Dr. R. Spence; January 28th, Official Meeting of the Society and *Tilden Lecture*, "Three- and Four-membered Heterocyclic Rings", by Professor F. E. King; February 11th, *Bedson Club Lecture*, "Partition Chromatography", by Dr. A. J. Martin; March 4th, *Meeting* for reading papers; May 13th, *Bedson Club Lecture*, "The Kinetics of Oxidation Reactions in the Gaseous Phase", by Sir Cyril Hinshelwood; May 19th, *Centenary Lecture*, "The Chemistry and Biochemistry of Some Mammalian Secretions and Excretions", by Dr. E. Lederer; November 25th, *Meeting* for reading papers. Fellows were invited to all meetings of the Bedson Club as well as those organised by other bodies.

Northern Ireland. At Belfast (joint meetings with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry): January 21st, *Lecture*, "The Flax Wet Spinning Frame as a Source of Catalytic Damage in Bleaching", by Dr. W. Honneyman; February 9th, *Lecture*, "Some Problems of the Sensitiveness of Explosives", by Professor A. R. Ubbelohde; March 2nd, *Lecture*, "The Future of Synthetic Detergents in Relation to the Petroleum Chemical Industry", by Mr. A. K. Simcox; May 10th (joint meeting with the Microchemical Group of the Society of Public Analysts and the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Meeting* for reading of papers; May 17th, *Centenary Lecture*, "The Chemistry and Biochemistry of Some Mammalian Secretions and Excretions", by Dr. E. Lederer.

North Wales. February 17th, at University College of North Wales, Bangor (joint meeting with the University College of North Wales and the University of Liverpool Chemical Societies), *Lecture*, "Corrosion: The Study of Surface Reactions on Metals", by Dr. W. H. J. Vernon; (joint meetings with University College of North Wales Chemical Society): March 3rd, at the Edward Davies Chemical Laboratories, Aberystwyth, *Lecture*,

"The Liquid State", by Dr. A. E. Moelwyn-Hughes; at University College of North Wales: May 5th, *Lecture*, "Problems in the Chemistry of the Pectin and Hemicelluloses", by Professor E. L. Hirst; November 24th, *Lecture*, "A New Type of Aromatic Compound", by Professor W. Baker.

Nottingham. At the University (joint meetings with the University Chemical Society): January 27th, *Lecture*, "Some Aspects of Structural Inorganic Chemistry", by Dr. A. F. Wells; February 24th, *Lecture*, "The Shape of the Chemical Bond", by Professor C. A. Coulson; March 10th, *Lecture*, "Some Metabolic Products of Moulds", by Professor A. Robertson; October 20th, *Lecture*, "The Scattering of Light by Solutions", by Dr. E. J. Bowen; November 10th, *Lecture*, "Organic Compounds of Fluorine", by Professor M. Stacey; December 1st, *Meeting* for reading papers.

Oxford. Fellows were invited to the following *Alembic Club Lectures* held at the Physical Chemistry Laboratory: January 24th, *Lecture*, "Some Remarks on the Periodic Table", by Professor N. V. Sidgwick; February 7th, *Lecture*, "Localised and Non-localised Bonds", by Professor C. A. Coulson; February 28th (joint meeting with the local section of the Royal Institute of Chemistry), *Lecture*, "Research and Productivity in Industry," by Mr. C. S. Robinson; May 9th, *Lecture*, " π -Electrons in Organic Chemistry", by Dr. M. J. S. Dewar; May 17th, *Lecture*, "The Liquid State", by Dr. E. A. Moelwyn-Hughes; October 17th, *Lecture*, "Compounds of the Inert Gases", by Mr. H. M. Powell; October 31st, *Lecture*, "Micro-wave Spectroscopy", by Professor E. Bright Wilson; November 21st, *Lecture*, "Synthesis of Nucleotides", by Professor A. R. Todd.

St. Andrews and Dundee. February 10th, at University College, Dundee [joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry and in conjunction with the British Association (Dundee) Trust], *Lecture*, "Soil Fertility", by Dr. W. G. Ogg; February 25th, at United College, St. Andrews (joint meeting with the local section of the Royal Institute of Chemistry and the University Chemical Society), *Lecture*, "Free Radicals and Hydrocarbon Chemistry", by Professor C. E. H. Bawn; April 7th, at University College, Dundee, *Lecture*, "Some Recent Advances in Surface Chemistry", by Dr. A. E. Alexander; April 29th, at United College, St. Andrews, *Lecture*, "Recent Developments in the Chemistry of Glutamic Acid and its Compounds", by Professor F. E. King; at University College, Dundee: October 21st, *Lecture*, "Chemical Reactions induced by Nuclear Radiations", by Dr. F. S. Dainton; October 27th, *Lecture*, "The Chemistry of Metallic Oxides", by Dr. J. S. Anderson.

Sheffield. At the University (joint meetings with the University Chemical Society): February 17th, *Lecture*, "Hydrogen Peroxide as an Ionising Solvent", by Professor W. F. K. Wynne-Jones; March 3rd, *Lecture*, "The Chemistry of Colchicine", by Professor J. W. Cook; November 3rd, *Lecture*, "Some Aspects of the Organic Chemistry of Fluorine", by Dr. C. W. Suckling; December 1st, *Lecture*, "Some Oxidations involving Free Radicals", by Dr. W. A. Waters.

Southampton. January 28th, at University College (joint meeting with the University College Chemical Society), *Lecture*, "Some Aspects of Recent Work at the Chemical Research Laboratory, Teddington", by Dr. R. P. Linstead; February 2nd, at the Municipal College, Portsmouth (joint meeting with the Mid-Southern Counties Section of the Royal Institute of Chemistry, the London Section of the Society of Chemical Industry and the Portsmouth and District Chemical Society), *Lecture*, "Food Science in Evolution", by Dr. L. H. Lampitt; at University College: May 6th (joint meeting with the University College Chemical Society), *Lecture*, "Some Aspects of Aromatic Substitution", by Professor Brynmor Jones; October 21st (joint meeting with the Mid-Southern Counties Section of the Royal Institute of Chemistry and the University College Chemical Society), *Lecture*, "Medical Aspects of Radiation Chemistry", by Dr. Edson; November 25th (joint meeting with the University College Chemical Society), *Lecture*, "Macro-molecular Studies with the Electron-microscope", by Professor W. T. Astbury.

South Wales. At University College, Swansea: January 21st, *Lecture*, "The Oxidation of Phenols", by Professor R. D. Haworth; (joint meetings with University College of Swansea Students' Chemical Society): February 3rd, *Lecture*, "The Friction and

Lubrication of Metal Surfaces”, by Dr. F. B. Bowden; March 11th, *Lecture*, “The Function of Sulphuric Acid in Aromatic Nitration”, by Dr. G. M. Bennett; October 27th, at University College, Cardiff, *Lecture*, “Aromatic Nitration”, by Professor C. K. Ingold; at University College, Swansea: October 28th (joint meeting with the local section of the Royal Institute of Chemistry and University College of Swansea Students’ Chemical Society), *Lecture*, “Aromatic Nitration”, by Professor C. K. Ingold; November 18th (joint meeting with University College of Swansea Students’ Chemical Society), *Lecture*, “The Formation and the Reactions of Free Radicals in Solution”, by Professor M. G. Evans; at University College, Cardiff: November 30th, *Lecture*, “Some Recent Advances in the Physical Chemistry of High Polymers”, by Dr. G. Gee.

APPENDIX B.

ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE FOR THE YEAR 1949.

Problems arising from war-time activities, and from re-adjustments in the chemical industry immediately after the war, were reflected in the abnormal increase in the number of readers using the Library and in the number of books borrowed. This phase having passed, it is not surprising that there were decreases in the number of attendances and of books borrowed during the year 1949. The more prolonged use made of the Library on the average by individual readers, however, together with the more complex nature of the enquiries received, suggest that the Library is utilised for problems of a more fundamental character than ever. A substantial increase in the number of books issued by post makes it clear that the value of the Library is becoming more fully appreciated in the provinces.

The photostat service is still meeting a real need; during the year, the number of printed pages copied was 5018, an increase of 413 on the previous year. There were 1985 telephone enquiries, an increase of 221 over the figures for 1948. The number of books added to the Library was 319, of which 71 were presented. There were 573 volumes of periodicals added and 224 pamphlets. The total number of volumes in the Library is now 50,679, of which 15,373 are books and 35,306 volumes of periodicals.

	Attendances.	Books borrowed.	Books added.	Volumes of periodicals added.	Pamphlets added.
1949	10,778	8926 (4177 by post)	319	573	224
1948	11,547	9741 (3569 by post)	282	583	187

It has been found possible to waive the Regulation requiring the registration of Library books sent through the post to addresses in Great Britain, and certain other Library Regulations have been simplified.

It gives the Committee much pleasure to record its sincere thanks to those authors and publishers who have courteously presented copies of newly published works to the Library, and also to Fellows and others who have enriched the Society’s historical collection by the gift of copies of earlier publications.

INCOME AND EXPENDITURE GENERAL PURPOSES ACCOUNT FOR THE YEAR ENDED 31ST DECEMBER, 1949.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
123	1 8	23	5 0	5891	2 5	606	3 7
2558	0 11	4280	2 4	1342	11 6	136	0 0
6779	7 6	5906	19 8	932	8 4	281	13 7
226	1 8	245	16 3	107	7 2	312	15 6
2768	12 7	380	10 2	9610	2 1	1099	10 8
9024	17 10	11,374	19 3	206	8 10	206	3 10
146	12 6	128	12 0	244	14 11	7855	8 10
21,803	13 0	22,296	19 8	473	11 11	658	1 9
—	—	531	0 0	517	17 10	233	5 6
21,803	13 0	22,827	19 8	1021	0 9	31	10 0
1000	0 0	109	0 0	12,650	15 9	12,650	15 9
20,803	13 0	22,628	19 8	458	1 9	1400	0 0
880	0 0	300	0 0	255	10 8	411	16 6
20,453	13 0	22,328	19 8	13	13 0	31	10 0
800	0 0	300	0 0	292	14 1	11,810	4 4
20,753	13 0	22,028	19 8	64	11 7	1661	14 3
641	5 7	584	0 11	—	—	300	0 0
283	14 5	300	0 10	—	—	396	17 6
102	13 2	91	18 2	—	—	21	10 0
100	0 0	101	9 5	—	—	340	16 9
134	4 3	111	4 5	—	—	84	11 6
1032	8 10	£23,851	7 5	—	—	£23,851	7 5
£23,077	0 11	£23,077	0 11	—	—	—	—

Income.		Expenditure.	
To Life Composition Fees (£69 15s. 0d.), one-third as Income	23 5 0	By Administration Expenses:	4204 9 1
Annual Subscriptions:		Office Salaries and Wages	461 19 10
Single-body Fellows—		Superannuation	1126 11 0
Received in advance, on account of 1949	4280 2 4	House Expenses etc.	117 12 0
Received during 1948 on account of 1949	5906 19 8	Accountants' Charges	817 0 2
Received during 1948 on account of 1948 and previous years	245 16 3	Printing, Stationery, and Office Expenses	290 10 3
Joint Fellows—		Furniture	205 16 0
Received in advance on account of 1949	380 10 2	Miscellaneous	268 8 3
Received during 1948 on account of 1949	11,374 19 3	Less Transfer to Publications and Library:	7492 6 7
Received during 1948 on account of 1948 and previous years	128 12 0	Journal	—
Add Excess amount provided in 1948 for adjustment with Society of Chemical Industry	22,296 19 8	Annual Reports	—
Less Liability to the Society of Chemical Industry to adjust cost of publications supplied to Joint Members	22,827 19 8	Quarterly Reviews	—
Less Amount included in last year's Income, being valuation of Arrears as per last Balance Sheet	300 0 0	Library Account	—
Add Arrears to date estimated to realise as per Balance Sheet	300 0 0	Expenses on Account of Conjoint Chemical Office (including salaries for 1949)	1400 0 0
Dividends on Investments	584 0 11	Expenses of Meetings	411 16 6
Income Tax recovered	300 0 10	Donations	31 10 0
Donations—	91 18 2	Balance of Expenditure on Publications to Publication to Library Account:	11,810 4 4
Legacy—Hugh Main	101 9 5	For Fittings, Furniture, Books, Periodicals, and Binding	618 7 6
Miscellaneous Receipts	111 4 5	Proportion of Maintenance	943 6 9
Balance, being Excess of Expenditure over Income, carried to Balance Sheet	£23,851 7 5	Transfer to Staff Pensions Fund	300 0 0
		Expenses of Local Representatives	396 17 6
		Legal Charges	21 10 0
		Travelling Expenses of Members of Council	340 16 9
		Loss on Exchange (Australia)	84 11 6

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1949.

LIBRARY.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
473	11 11	943	6 9	604	6 6	870	10 6
50	2 7	—	—	19	8 0	34	6 9
100	0 0	200	0 0	—	—	238	9 6
623	14 6	—	—	623	14 6	—	—
547	17 10	618	7 6	2616	10 4	3049	8 7
1063	8 10	1188	19 4	269	18 2	277	2 10
565	6 6	638	1 0	49	16 4	65	11 4
117	1 0	132	2 2	—	—	199	0 6
83	13 1	101	3 9	96	19 7	131	15 9
117	1 0	132	2 2	244	14 11	134	3 11
570	7 8	825	6 7	—	—	—	—
3060	15 11	—	—	3277	19 4	—	—
100	0 0	100	0 0	—	—	—	—
80	0 0	50	0 0	—	—	—	—
10	10 0	10	10 0	—	—	—	—
56	13 5	60	10 5	—	—	—	—
217	3 5	221	0 5	—	—	—	—
£3901	13 10	£5000	9 8	£2901	13 10	£5000	9 8

Income.

To Contribution for Fittings, Furniture, Books, Periodicals, and Binding:

Transfer from General Purposes Account ...

Transfer from Special Reserve Fund (deferred expenditure) ...

Government Grant (through the Royal Society) ...

Legacy—G. McGowan ...

Contributions towards maintenance:

Through the Chemical Council:

Chemical Society (transfer from General Purposes Account) ...

Royal Institute of Chemistry ...

Society of Chemical Industry ...

Faraday Society ...

Society of Public Analysts and other Analytical Chemists ...

Biochemical Society ...

From the Chemical Council ...

Contributions, etc., received from other sources towards maintenance:

Association of British Chemical Manufacturers ...

Institute of Brewing ...

Society of Dyers and Colourists ...

Miscellaneous receipts ...

Expenditure.

By Capital and Extraordinary Expenditure:

Books and Periodicals ...

Furniture ...

Binding ...

Maintenance:

Salaries and Wages ...

Superannuation of Library Staff ...

Postages ...

House Expenses, etc. ...

Office Expenses and Stationery ...

Miscellaneous Expenses ...

Overhead Expenses (proportion) ...

* Other than those received in exchange.

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1949.

SPECIAL RESERVE FUND.

1948		Income.		1949		Expenditure.		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
316	11 6	To Dividends on Investments	320	1 7	219	19 10	By Expenses on Change of Investments	...	...
16	4 4	" Interest on Deposit	14	2 9	195	18 1	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...	...
84	2 2	" Income Tax recovered	97	1 1	£431	6 6		431	6 6
£416 17 11			£431 6 6		£416 17 11			£431 6 6	

RESEARCH FUND.

1948		Income.		1949		Expenditure.		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
366	4 5	To Dividends on Investments	350	15 0	887	0 0	By Grants awarded	...	...
280	16 7	" Income Tax recovered	266	2 7	21	0 0	" Honorarium, Hugo Millier Lecture	...	...
69	1 9	" Repayment of Grants	36	13 8	—	—	do., Longstaff Medalist	...	...
6	15 9	" Interest on Deposit	3	7 1	6	0 2	" The Longstaff Medal	...	...
17	19 0	" Sale of Apparatus	2	10 0	15	19 8	" Miscellaneous Expenses	...	...
30	0 0	" Grants not claimed	70	0 0				...	...
179	2 4	" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	111	13 0	£928 19 10			775	2 0
£928 19 10			£830 1 4		£928 19 10			£830 1 4	

SPECIAL PUBLICATIONS FUND.

1948		Income.		1949		Expenditure.		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
35	12 10	To Sales of Publications	35	1 2	432	2 9	By Cost of Publications	...	...
50	1 10	" Dividend on Investments	38	9 2	2	9 0	" Miscellaneous Expenses	...	...
28	1 3	" Income Tax recovered	20	8 4				...	...
320	15 10	" Interest on Deposit	20	15 9	£434 11 9			502	8 11
		" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	382	1 3	£508 15 8			£508 15 8	
£434 11 9			£508 15 8		£434 11 9			£508 15 8	

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1949.

STAFF PENSIONS FUND.

		Income.		Expenditure.		
		1948	1949	1948	1949	
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	
	To Transfer from General Account	79 4 11	300 0 0	840 0 0	By Pensions paid	965 0 0
	Dividends on Investments	23 12 6	91 2 7	—	Miscellaneous Expenses	6 14 3
	Income Tax recovered	14 7 4	31 14 9	—	—	—
	Interest on Deposit	722 15 3	11 9 1	—	—	—
	Balance, being Excess of Expenditure over Income, carried to Balance Sheet		637 7 10		—	—
		£840 0 0	£971 14 3	£840 0 0	£971 14 3	

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

		Income.		Expenditure.		
		1948	1949	1948	1949	
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	
	To Dividends on Investments	17 10 9	26 14 10	16 0 0	By Harrison Prize	2 6 10
	Income Tax recovered	10 8 0	20 2 0	2 2 0	Balance, being Excess of Income over Expenditure, carried to Balance Sheet	44 10 0
	Interest on Deposit	13 7	—	—	—	—
	Balance, being Excess of Expenditure over Income, carried to Balance Sheet	21 8 7	—	—	—	—
		£162 2 0	£46 16 10	£162 2 0	£46 16 10	

SPECIAL LECTURES FUND.

		Income.		Expenditure.		
		1948	1949	1948	1949	
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	
	To Dividends on Investment	17 10 9	24 11 3	26 0 0	By Honorarium	—
	Income Tax recovered	10 8 0	9 10 11	26 0 11	Lecture Expenses	—
	Interest on Deposit	13 7	4 11	—	Miscellaneous Expenses	1 11 4
	Balance, being Excess of Expenditure over Income, carried to Balance Sheet	21 8 7	—	—	Balance, being Excess of Income over Expenditure, carried to Balance Sheet	32 12 9
		£50 0 11	£34 7 1	£50 0 11	£34 7 1	

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1949.

THE FARADAY LECTURE FUND.

	1948		1949		1949	
	£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>						
To Dividends on Investment	7	4	7	17	0	
" Income Tax recovered	5	18	6	18	0	
" Interest on Deposit	5	0	1	11		
	£13	7	£13	7	0	
<i>Expenditure.</i>						
By Miscellaneous Expenses						
" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	13	7	13	7	0	
	£13	7	£13	7	0	

THE TILDEN LECTURE FUND.

	1948		1949		1949	
	£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>						
To Dividends on Investments	176	0	37	3	0	
" Income Tax recovered	27	9	27	11	1	
" Interest on Deposit	3	0	3	0		
" Balance, being Excess of Expenditure over Income, carried to Balance Sheet			31	11	2	
	£96	6	£96	6	3	
<i>Expenditure.</i>						
By Honoraria						
" Lecture Expenses			15	15	0	
" Transfer to Publications Account, for cost of publication of Lectures			5	11	2	
" Miscellaneous Expenses						
" Balance, being Excess of Income over Expenditure, carried to Balance Sheet			48	0	0	
	£96	6	£96	6	3	

CENTENARY FUND.

	1948		1949		1949	
	£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>						
To Dividends on Investments	176	0	240	10	0	
" Income Tax recovered	54	6	206	17	5	
	£229	6	£447	7	5	
<i>Expenditure.</i>						
By Expenses of Lecturers & Delegates			163	6	9	
" Miscellaneous Expenses			4	3	0	
" Balance, being Excess of Income over Expenditure, carried to Balance Sheet			61	17	11	
	£229	6	£447	7	5	

THE ROBERT JOHN FLINTOFF TRUST.

	1948		1949		1949	
	£	s. d.	£	s. d.	£	s. d.
<i>Income.</i>						
To Interest			8	17	2	
			£8	17	2	

THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1949.

PUBLICATIONS FUND.

1948		1949		1949		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
107	4 0	9,978	19 7	9,978	19 7	107	4 0
9,708	10 6	...	...	...	...	...	...
270	9 1	...	...	...	...	...	...
£10,086 3 7		£10,978 19 7		£10,086 3 7		£10,978 19 7	
				<i>Liabilities.</i>			
				<i>Assets.</i>			
To Sundry Creditors		By Investments as per Schedule (cost or value when acquired)		" Cash at Bank		"	
" Excess of Assets over Liabilities as per last Balance Sheet		" Add net profit on change of Investments		" Add Legacy—W. H. Perkin		"	
Add		Add		Add		Add	
1,000		1,000		1,000		1,000	

SPECIAL RESERVE FUND.

1948		1949		1949		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
11,185	0 7	1200	0 0	14,568	7 0	3,811	15 9
2,100	0 0	9085	0 7	3,811	15 9	...	...
1,360	0 3	9000	0 0	...	...	...	...
60	2 7	1309	17 8	...	...	...	...
1,868	7 0	1509	17 8	...	...	...	...
106	18 1	3350	0 0	...	...	...	...
2,064	5 1	825	0 0	...	...	...	...
404	8 2	1650	1 11	...	...	...	...
£18,370 2 9		£18,370 2 9		£18,370 2 9		£8903 5 1	
				<i>SPECIAL RESERVE FUND.</i>			
To Sundry Creditors		By Investments as per Schedule (cost or value when acquired)		" Cash at Bank and on Deposit in London Savings Bank		"	
" Reserve for Publications as per last Balance Sheet		" Deduct Amount transferred to Publications Account		" Reserve for Library Books and Binding as per last Balance Sheet		" Deduct Amount transferred to Library Account for Books	
" Reserve for Research Fund as per last Balance Sheet		" Reserve for Building Fund		" Excess of Income over Expenditure brought forward		" Add Profit on Sale of Investments	
" Excess of Income over Expenditure		" Add Excess of Income over Expenditure for year		" Deduct Net Loss on change of Investments		"	
Add		Add		Add		Add	
1,650		1,650		1,650		1,650	

THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1949.

RESEARCH FUND.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
20,727	3 4	20,689	8 10	19,492	17 3	19,492	17 3
141	7 10	—	—	1,722	5 5	1,827	19 4
20,868	11 2	20,689	8 10				
179	2 4	111	13 0				
20,689	8 10	20,577	15 10				
£21,215	2 8	£21,320	16 7				
				£21,215	2 8		
				£21,320	16 7		

Liabilities.

To Sundry Creditors	£ 743	0	9
Excess of Assets over Liabilities as per last Balance Sheet	20,689	8	10
Add net Profit on change of Investments	—	—	—
Deduct Excess of Expenditure over Income for year	111	13	0
	20,577	15	10
	£21,320	16	7
	£21,215	2	8

Assets.

By Investments as per Schedule (cost or value when acquired)	£ 19,492	17	3
Cash at Bank (including Deposit) and on deposit in Post Office Savings Bank	1,827	19	4
	£21,320	16	7

SPECIAL PUBLICATIONS FUND.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
3116	1 11	3207	5 11	23	9 10	20	11 4
411	19 10	—	—	2011	19 10	2011	19 10
3628	1 9	3207	5 11	1174	19 6	868	0 9
320	15 10	382	1 3				
£3210	9 2	£2890	11 11				
				£3210	9 2		
				£2890	11 11		

Liabilities.

To Sundry Creditors	£ 65	7	3
Excess of Assets over Liabilities as per last Balance Sheet	3207	5	11
Add Net Profit on change of Investments	—	—	—
Deduct Excess of Expenditure over Income for year	382	1	3
	£2890	11	11

Assets.

By Sundry Debtors	£ 23	9	10
Investments as per Schedule (cost or value when acquired)	2011	19	10
Cash at Bank and on deposit in the Post Office Savings Bank and London Savings Bank	1174	19	6
	£3210	9	2

STAFF PENSIONS FUND.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
5863	6 7	5058	15 1	4165	17 6	3000	0 0
—	—	160	8 6	892	17 7	3726	6 0
5863	6 7	5219	3 7			663	4 0
81	16 3	—	—				
722	15 3	537	7 10				
5058	15 1	4681	15 9				
£5068	15 1	£4688	10 0				
				£5068	15 1		
				£4688	10 0		

Liabilities.

To Sundry Creditors	£ 6	14	3
Excess of Assets over Liabilities as per last Balance Sheet	5058	15	1
Add Profit on sale of Investments	160	8	6
Deduct Net Loss on change of Investments...	5219	3	7
Deduct Excess of Expenditure over Income for year	537	7	10
	£4688	10	0

Assets.

By Sundry Debtors	£ 4165	17	6
Investments as per Schedule (cost or value when acquired)	892	17	7
Cash at Bank and on deposit in the Post Office Savings Bank	3000	0	0
	£5068	15	1

THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1949.

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

		1949		1948		1949		1948	
		£	s. d.	£	s. d.	£	s. d.	£	s. d.
<i>Liabilities.</i>									
To Sundry Creditors	...								
" Excess of Assets over Liabilities as per last Balance Sheet	...	1248	3 1	1146	19 9	1101	7 11	1101	7 11
Add Excess of Income over Expenditure for year	...			44	10 0	46	11 10	46	11 8
Deduct Excess of Expenditure over Income for year	...	1248	3 1	1191	9 9	1191	9 9	1191	9 9
		101	3 4	1146	19 9	1191	9 9	1146	19 9
				<u>£1146</u>	<u>19 9</u>	<u>£1193</u>	<u>16 7</u>	<u>£1146</u>	<u>19 9</u>

SPECIAL LECTURES FUND.

		1949		1948		1949		1948	
		£	s. d.	£	s. d.	£	s. d.	£	s. d.
To Sundry Creditors	...	1238	4 6	1682	0 11	1365	5 0	1615	5 0
" Excess of Assets over Liabilities as per last Balance Sheet	...			32	12 9	216	15 11	101	8 0
Add Excess of Income over Expenditure for year	...								
Add Net Profit on change of Investment...	...	1603	9 6	1614	13 8				
Deduct Excess of Expenditure over Income for year	...	21	8 7	1614	13 8				
				<u>£1682</u>	<u>0 11</u>	<u>£1616</u>	<u>8 0</u>	<u>£1682</u>	<u>0 11</u>

THE FARADAY LECTURE FUND.

		1949		1948		1949		1948	
		£	s. d.	£	s. d.	£	s. d.	£	s. d.
To Sundry Creditors	...	467	6 2	470	13 9	369	4 0	439	4 0
" Excess of Assets over Liabilities as per last Balance Sheet	...			13	8 3	101	9 9	45	6 9
Add Excess of Income over Expenditure for year	...	13	7 7	470	13 9				
Deduct Excess of Expenditure over Income for year	...			483	17 0				
				<u>£470</u>	<u>13 9</u>	<u>£484</u>	<u>10 9</u>	<u>£470</u>	<u>13 9</u>

THE CHEMICAL SOCIETY. BALANCE SHEETS, 31ST DECEMBER, 1949.

THE TILDEN LECTURE FUND.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
1966	2 3	---	---	1878	14 10	---	---
48	0 0	---	---	160	11 5	---	---
2014	2 3	---	---	2014	2 3	---	---
---	---	2014	2 3	---	---	---	---
---	---	---	---	1982	11 1	---	---
£2039 6 3		£2010 19 11		£2039 6 3		£2010 19 11	
				Liabilities.			
				To Sundry Creditors	...	...	...
				Excess of Assets over Liabilities as per last Balance Sheet	...	...	...
				Add Excess of Income over Expenditure for year	...	...	...
				Deduct Excess of Expenditure over Income for year	...	...	...

CENTENARY FUND.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
11,727	7 1	---	---	1,297	9 9	---	---
3,198	18 11	---	---	12,698	3 4	---	---
14,926	6 0	---	---	761	18 4	---	---
501	16 8	---	---	---	---	---	---
61	17 11	---	---	---	---	---	---
28	16 10	---	---	---	---	---	---
---	---	---	---	---	---	---	---
£14,667 11 5		£17,530 13 9		£14,667 11 5		£17,530 13 9	
				Assets.			
				By Sundry Debtors	...	...	...
				Investments as per Schedule (cost or value when acquired)	...	...	...
				Cash at Bank	...	...	...

THE ROBERT JOHN FLINTOFF TRUST.

1948		1949		1948		1949	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
---	---	---	---	---	---	---	---
---	---	---	---	1000	0 0	---	---
---	---	---	---	3	17 2	---	---
£1003 17 2		£1003 17 2		£1003 17 2		£1003 17 2	
				Liabilities.			
				To Cash received from Executors	...	...	...
				Add Excess of Income over Expenditure for year	...	...	...

SCHEDULE OF INVESTMENTS.

GENERAL PURPOSES.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1949.	
	£	s. d.	£	s. d.
£2436 15s. 6d. 3½% Conversion Loan, 1961, or after	1884	12 8	2281	2 11
£2408 2s. 6d. 3% Funding Loan, 1965/69	2429	11 6	2335	17 7
£2400 14s. 9d. 3% Savings Bonds, 1960/70	2418	11 0	2325	14 2
£2000 9% Savings Bonds, 1966/76	2006	4 6	1895	0 0
£4747 4s. 6d. 3% British Transport Guaranteed Stock, 1978/88	4704	9 8	4272	10 1
£2646 1s. 4d. 3% British Electricity Guaranteed Stock, 1968/73	2649	4 6	2423	10 7
£1200 2½% Defence Bonds	1200	0 0	1200	0 0
£2400 2½% Bristol Corporation Debenture Stock, 1967	2070	2 0	2304	0 0
£1650 3½% London County Consolidated Stock, 1964/69	1639	2 6	1696	10 0
£2000 3% London County Consolidated Stock, 1962/67	2032	10 0	2010	0 0
£2000 3% Commonwealth of Australia Registered Stock, 1964/66	1809	7 6	2412	10 0
£A2170 4% Commonwealth of Australia Treasury Bonds, 1961	1833	13 0	1765	8 3
£A830 4% Commonwealth of Australia Treasury Bonds, 1961	719	3 7	678	6 0
	£28,996	12 2	£27,500	9 7

PUBLICATIONS FUND.

£2260 19s. 6d. 3½% Conversion Loan, 1961, or after	1566	16 4	2125	6 6
£1000 9% Savings Bonds, 1965/66	1000	0 0	891	6 0
£2261 1s. 11d. 3% Savings Bonds, 1960/70	2276	1 11	2190	8 9
£2706 13s. 4d. 3% British Transport Guaranteed Stock, 1978/88	1929	1 4	1868	2 0
£2000 9% British Electricity Guaranteed Stock, 1968/73	2002	10 0	1863	16 0
£1200 9% Commonwealth of Australia Registered Stock, 1964/66	1204	10 0	1158	0 0
£983 12s. 0d. 3% Southern Rhodesia Stock, 1971/73	1000	0 0	833	9 6
	£10,978	19 7	£11,220	6 7

SPECIAL RESERVE FUND.

£1300 2½% Defence Bonds	1300	0 0	1300	0 0
£1600 3% Savings Bonds, 1965/66	1600	0 0	1486	17 6
£2682 10s. 6d. 3% Liverpool Corporation Stock, 1966/68	2647	0 0	2604	11 10
£2000 2½% Funding Loan, 1966/61	3011	6 0	2970	0 0
	£9468	7 0	£8361	9 4

RESEARCH FUND.

£4177 16s. 1d. 3½% Conversion Loan, 1961, or after	3625	16 8	3927	2 9
£300 Defence Bonds, 4th issue	600	0 0	600	0 0
£4000 9% Savings Bonds, 1960/70	4060	0 0	3875	0 0
£2766 2s. 1d. 3% British Transport Guaranteed Stock, 1978/88	3667	19 6	3379	11 11
£3719 8s. 2d. 3% British Electricity Guaranteed Stock, 1968/73	3724	1 2	3640	7 10
£4000 5% Commonwealth of Australia Registered Stock, 1964/66	4015	0 0	3860	0 0
	£19,492	17 3	£19,082	2 6

ROBERT JOHN FLINTOFF TRUST.

£528 2s. 2d. 3½% Conversion Loan, 1961, or after	600	0 0	491	14 6
£349 18s. 4d. 3% British Transport Guaranteed Stock, 1978/88	600	0 0	491	7 6
	£1000	0 0	£983	1 10

SPECIAL PUBLICATIONS FUND.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1949.	
	£	s. d.	£	s. d.
£716 8s. 10d. 3½% Conversion Loan, 1961, or after	641	2 4	672	10 8
£746 1s. 0d. 3% British Transport Guaranteed Stock, 1978/88	719	18 9	671	8 11
£760 9% British Electricity Guaranteed Stock, 1968/73	760	18 9	713	18 1
	£2011	19 10	£2057	17 3

STAFF PENSIONS FUND.

£114 1s. 11d. 3½% Conversion Loan, 1961, or after	88	2 3	107	5 0
£160 2½% National War Bonds, 1961/63	160	0 0	162	10 7
£170 9% Savings Bonds, 1965/66	170	0 0	170	0 0
£815 2s. 7d. 2½% Funding Loan, 1966/61	818	3 9	806	19 6
£2600 2½% Defence Bonds	2600	0 0	2600	0 0
	£3726	6 0	£3786	15 1

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

£61 18s. 8d. 3½% Conversion Loan, 1961, or after	60	1 6	68	1 6
£1489 10s. 6d. 3% British Transport Guaranteed Stock, 1978/88	1061	6 6	1340	11 6
	£1101	7 11	£1398	13 0

SPECIAL LECTURES FUND.

£1661 18s. 3d. 3% British Transport Guaranteed Stock, 1978/88	£1616	5 0	£1400	3 0
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THE FARADAY LECTURE FUND.

£441 1s. 11d. 3½% Conversion Loan, 1961, or after	£439	4 0	£414	12 7
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THE TILDEN LECTURE FUND.

£419 4s. 10d. 3% Funding Loan, 1969/69	386	12 10	408	13 3
£186 National Provincial Bank Shares £5 each, £1 paid up	078	18 0	667	6 6
£681 19s. 1d. 3% British Transport Guaranteed Stock, 1978/88	028	2 0	613	16 2
£220 9% Metropolitan Water Board (Kent Water Works) Deb. Stock	188	2 0	177	2 0
	£1878	14 10	£1864	15 11

CENTENARY FUND.

£2477 15s. 11d. 3% Savings Bonds, 1965/65	2491	11 10	2456	0 4
£2600 3% Savings Bonds, 1960/70	2634	7 6	2421	17 6
£1970 16s. 0d. 3% New Zealand Stock, 1973/77	2000	0 0	1824	16 2
£2700 18s. 7d. 2½% Savings Bonds, 1964/67	2800	0 0	2628	10 0
£2600 3% British Electricity Guaranteed Stock, 1968/73	2489	8 8	2370	13 0
£2278 13s. 0d. 3% British Transport Guaranteed Stock, 1978/88	2387	7 6	2043	13 6
£A3500 4% Commonwealth of Australia Treasury Bonds, 1961	2936	7 6	2860	6 11
	£17,198	3 4	£16,514	6 11

W. A. ARKERS, Treasurer.

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 Investments. An interim payment of £1700 on the Corday-Morgan Memorial Fund has been received from the Public Trustee and is not included in the Account for this year.

FINSBURY CIRCUS HOUSE,
BLONDFIELD STREET, E.C.2.
MARCH 10TH, 1950.

W. B. KEEN & Co.
Chartered Accountants.