

# ANNUAL GENERAL MEETING

THE Ninety-Ninth Annual General Meeting was held at Burlington House on Thursday, 4th April, 1940, the President, SIR ROBERT ROBINSON, F.R.S., being in the Chair.

The business portion of the meeting took place at 2.30 p.m.

The notice convening the meeting was read.

The Report of Council for 1939 was presented and the Senior Secretary, in introducing the general sections of the Report, summarised the effects of the first four months of war on the normal activities of the Society. He also referred to the formation in September 1939, of the Advisory Research Council of the Chemical Society.

Dealing with the Advisory Research Council, the President said that the response to the suggestions made and invitations issued by the Advisory Research Council (A.R.C.C.S.) had been very gratifying, and that he was sure that the initiative would continue to receive the generous support of Fellows, not only in these Islands, but throughout the Empire. The general scope of this activity was already well understood, but he thought it might serve a useful purpose to explain a few points which were perhaps not so generally appreciated.

The situation in regard to scientific research in its application to the war is very different from that of 1914. This is due, partly to the effort made in the Great War itself, partly to the intensive work of the intervening years, and in part to the unanticipated course of the present emergency which has not yet thrown up so many new problems as might have been expected. Nevertheless there are clear indications that the original work of research chemists will be needed in the present struggle, possibly to a greater extent than in the past, and the relative slowness of the start should deceive nobody in regard to the vitally important rôle which may be played by our organisation.

Certain Research Committees under Government auspices are already showing a marked tendency to make full use of our facilities in connexion with the longer-range investigations in which they are interested.

It has been laid down by the Council that the only subjects to be studied should be such as have a definite relation to the conduct of the present war. It is, however, generally agreed that the maintenance of our export trade in a flourishing condition is of the utmost importance, and therefore we are prepared to assist the Chemical Industry as far as lies in our power. Here the attack must be on a broad front and, as it is impossible to spot the winners before the race, there must be losers also. Co-operative effort is essential, and this reflection should console those who are unable to see in what way the suggestions made to them could have any influence on the fortunes of the nation. Fellows may rest assured that more urgent needs will be made known to them when they become apparent to the Council, and all suggestions of a specific nature are welcomed and carefully examined.

The Council does not supervise or direct work undertaken at its suggestion, and the results may be used or published in any way that the investigator desires, subject of course to his own private commitments to firms who may have given material assistance or confidential information.

Similarly, the Council can accept no responsibility for the accuracy of the work or for losses sustained or accidents to personnel.

As an advisory body the Council is prepared to give any assistance in its power to investigators who wish to ensure that their work is utilised to the full in the national interest. When work is undertaken on behalf of a Government Department, this fact is clearly stated, and Fellows need not be reminded of the existence of the "Official Secrets Act." In such cases special conditions are attached and appropriate arrangements are made for reports.

The A.R.C.C.S. has no funds at its disposal, but workers on projects suggested by the Council may make application at any time to the Research Fund Committee of the Society.

Finally it is emphasised that the Council is always available for consultation if any Fellow is doubtful of the proper procedure at any stage of his work.

The Treasurer was then called upon by the President to deal with the Accounts for the past year, and, using lantern slides to illustrate his remarks, he pointed out that the accounts included a period of four months in which the country was engaged in war; it was too early as yet, however, to estimate what would be the effect of war conditions on the finances of the Society. The deficit at the end of 1939 was £321 9s. 9d. as against £288 1s. 3d. for 1938, showing that the net result was not markedly different. Expenditure on A.R.P. amounted to £435 4s. 2d., but on the other hand the amount transferred to the Publications Fund from the General Purposes account was £566 3s. 7d. less than in 1938, mainly owing to a decrease in the number of pages printed in the *Journal* and *Abstracts* during the last three months of the year.

Sufficient paper for the *Journal* for 1940 was acquired in December 1939, and this accounted for the figure £743 3s. 6d. among the assets in the General Purposes Balance Sheet. Paper for the *Abstracts* has also been obtained, payment for which did not become due until January 1940.

In November, by order of the Treasury, the Society was obliged to realise £700 worth of Canada 3½% stock. This had not been reinvested, but had been used to meet current expenditure. In referring to the loans from other funds and from the Chemical Council, amounting in all to £4,450, which it had been necessary to secure to meet current expenditure incurred during the year, he stated that continued deficits could be met only by loans or by sale of stock, and unless the scheme for further co-operation between the Institute of Chemistry, the Society of Chemical Industry, and the Chemical Society materialises, the Society would have seriously to consider curtailing some of its activities. Progress in industry depended in the long run on research in pure chemistry, which it was the main object of our Society to foster by publishing the *Journal*, *Abstracts* "A," and *Annual Reports*, by keeping the Library up-to-date, and by making grants for research. Without such progress, the status of the profession was bound to decline. Such an event would be detrimental not only to the interests of Fellows of the Society, but to Chemists and the Chemical Profession as a whole. He hoped, however, that the new scheme, which the Chairman of the Chemical Council informed him would come before the next meeting of that body, would shortly come into operation and the more pressing problems of the publishing societies thus be solved.

In September the accounts were transferred to Oxford under the charge of Mr. Morris, the Assistant General Secretary. Division of staff always brought with it certain disadvantages, but these and other difficulties caused by the war had been surmounted. In conclusion, he expressed his thanks to the General Secretary and his staff for the efficiency of their work during a particularly difficult period.

The adoption of the Report of Council for 1939, including Statements of Accounts and Balance Sheets, was proposed by Professor A. J. Allmand, seconded by Dr. G. N. Burkhardt, and carried unanimously.

The result of the election to vacancies on the Council for 1940—1941 was declared as follows :

*Honorary Secretary* : W. Wardlaw.

*Vice-Presidents who have filled the office of President* : N. V. Sidgwick, W. P. Wynne.

*Vice-Presidents who have not filled the office of President* : C. N. Hinshelwood, J. L. Simonsen.

*Elected Ordinary Members of Council* :

(a) Constituency I. S.E. England.

D. H. Hey (London).

F. G. Mann (Cambridge).

S. G. P. Plant (Oxford).

G. S. Whitby (London).

(b) Constituency III. N.W. England, N. Wales and Isle of Man.

T. P. Hilditch (Liverpool).

A vote of thanks to the Vice-Presidents, Treasurer, Honorary Secretaries, Council, and

Committees for their services during the year, proposed by Prof. W. E. Garner, was carried unanimously and acknowledged by Prof. J. C. Philip.

On the motion of Dr. A. B. Crawford, seconded by Dr. G. R. Ramage, Messrs. W. B. Keen & Co. were appointed Auditors for 1940.

The President then delivered his Presidential Address entitled “ (A) Some Aspects of the Chemotherapy of Tuberculosis. (B) A Speculation Regarding the Ring Structure of the Sterols and Related Substances.” At its conclusion a vote of thanks to him for his services in the Chair during the past year and for his Address, with the request that he would allow the Address to be printed in the *Journal*, proposed by Prof. I. M. Heilbron and seconded by Prof. J. W. Cook, was carried unanimously.

## REPORT OF COUNCIL, 1939.

His Majesty the King has been graciously pleased to grant his Patronage to the Society.

The further deterioration of the international situation in the Spring made certain air-raid precautions advisable. A measure of protection was provided for the library books in Burlington House, some office records were duplicated, and a number of cases containing the Society's records and valuable books were sent from London to places of greater safety. It was decided that in the event of an outbreak of war an emergency Headquarters should be established at Oxford, and in September a room was placed at the disposal of the Society by the Bursar of Lincoln College.

Thus far, despite four months of war, the essential services rendered by the Society have been maintained without serious curtailment. The *Journal* and *Abstracts* have appeared regularly, and the difficulties at first experienced in obtaining copies of some foreign publications are being overcome. War conditions, and especially the lighting restrictions, have led to a reduction in the number of meetings, as well as in library hours, but both meetings and library continue to be well attended. The Council trust that the loyal support of all Fellows will continue to be accorded to the Society in the difficult times at present being experienced.

### I. FELLOWSHIP.

#### (1) *Fellowship Statistics.*

The number of Fellows on the 31st December, 1938, was 3799. During 1939, 186 Fellows were elected and 15 reinstated, the corresponding figures for 1938 being 225 and 18, respectively. The Society has lost 53 by death, 117 by resignation, and 57 by removal owing to non-payment of annual subscriptions, making a total loss of 227, as against 219 in 1938. The number of Fellows on the 31st December, 1939, was 3773, showing a decrease of 26.

The names of those Fellows to whom the congratulations of the Society have been conveyed on their completing 60 and 50 years of Fellowship have been published in the Proceedings through the year. Among these are Dr. Alexander Scott, a former Secretary, Treasurer, and President, and Sir Wyndham Dunstan, a former Secretary and Vice-President.

#### (2) *Honours.*

The congratulations of the Society were conveyed to the following Fellows who received honours during the year :

Jocelyn Field Thorpe (Past-President) ...	Knight Bachelor.
John Ewart Trounce Barbary .....	Commander of the British Empire.
George Ingle Finch .....	Commander of the Order of King Leopold II.

The Council also conveyed congratulations to Professor R. P. Linstead on his being awarded the Hofmann Medal of the German Chemical Society and to Professor L. Ruzicka on his receiving a Nobel Prize for Chemistry for 1939.

#### (3) *Deaths.*

The Council deplore the loss of two Honorary Fellows, Professor Joji Sakurai (on the 28th January) and Professor S. P. L. Sørensen (on the 12th February).

Among the Fellows whose deaths the Council have to mourn were two members of Council, Sir William Pope (on the 17th October), who occupied the office of President from 1917 to 1919, and Professor George Barger (on the 5th January), who was a Vice-President.

(4) *Recruitment of Fellows.*

In the last Report of Council it was stated that the Council had appointed a Committee to consider the question of the recruitment of new Fellows. The report of this Committee, which was referred for comment to Local Representatives, was adopted after amendment by the Council and forwarded to the Council of the Society of Chemical Industry, at whose suggestion a joint Committee of the Councils of the two Societies was appointed in June to discuss certain minor differences in the recommendations before the two Societies. Owing to the war, further consideration of this important question has been deferred.

## II. PUBLICATIONS.

(1) *Journal.*

During the year 418 papers were received by the Society; of these, 7 were declined.

In addition to Obituary Notices and the usual reports on Atomic Weights and the Annual General Meeting, the *Journal* for 1939, occupying 1962 pages, contains 401 memoirs (96 on General, Physical, and Inorganic Chemistry, and 305 on Organic Chemistry) 33 notes, and 4 lectures, including the Presidential Address. The corresponding figures for 1938 are 2120 pages, 404 memoirs, 27 notes, and 9 lectures.

The average interval of time between the receipt and the publication of papers in 1939 was the same as in 1938, namely 9.3 weeks. For papers on which two wholly favourable reports were received, the interval was 9.0 weeks and for other papers 9.9 weeks.

(2) *Abstracts.*

The report of the Bureau of Chemical and Physiological Abstracts for 1939 is reproduced in full as Appendix B to this report.

It has been decided as a war-time measure to publish separately the Indexes of Abstracts A and B for 1939. This policy will be reviewed when circumstances permit.

The Council made a special non-recurrent grant of £200 to the Bureau of Chemical and Physiological Abstracts for Abstracts A III.

(3) *Annual Reports.*

Volume XXXV (1938) of the *Annual Reports on the Progress of Chemistry*, which was published in April 1939, contained 410 pages, compared with 492 in the previous volume.

(4) *Supply of Paper.*

At the request of the Chemical Council, which for the past two years has ordered paper for the Chemical Society and the Society of Chemical Industry, each Society is now making its own arrangements for ordering paper for its publications. Sufficient paper has been ordered and delivered for the *Journal* and *Abstracts* for 1940. The account for the paper for the *Journal* was paid in December, and among the assets in the General Purposes Balance Sheet is included an item of £743 3s. 6d. for paper.

## III. MEETINGS.

(1) *Scientific Meetings.*

The Society has held 12 Scientific Meetings in London during 1939. These included 4 lectures, 3 organised discussions, and 5 meetings at which 15 papers were read and discussed.

22 meetings were held outside London; these included 17 lectures, 1 discussion, 1 social gathering, and 3 meetings for the reading of papers. Fellows were invited to attend the series of Three Bedson Lectures given at Newcastle-on-Tyne.

A complete list of Lectures and Discussions is given in Appendix D.

(2) *Anniversary Meetings.*

The *Proceedings* for April contained a report of the Anniversary Meetings held in London on the 30th and 31st March. These consisted of the Rutherford Memorial Lecture by Sir Henry Tizard, K.C.B.; the Annual General Meeting and Presidential Address; the Anniversary Dinner; a Reception by Imperial Chemical Industries, Ltd., at Imperial Chemical House, and visits to Bedford College for Women, the Wellcome Research Institution, the British Drug Houses, Ltd., the Laboratories of the Shell Marketing Co., Ltd. at Fulham, the Distillers Company at Epsom, and the Research Association of British Paint, Colour, and Varnish Manufacturers at Teddington. The cordial thanks of the Council were conveyed to those responsible for the admirable arrangements that were made.

(3) *Tilden Lectures.*

The Society has received the sum of £1834 17s. 9d. from the estate of the late Lady Tilden. It was decided that this should be placed in a special fund to be called the Tilden Lecture Fund, and that the Council should appoint each year one or two Tilden Lecturers, preferably from the younger Fellows, each of whom should deliver in two different centres a lecture dealing with progress in some branch of chemistry. The income from the fund will be used to pay an honorarium to each Lecturer and to meet in part the cost of publishing such lectures. The first of these lectures was given on the 14th of December by Dr. L. E. Sutton, who chose as his subject "The Present State of Valency Theory."

#### IV. LIBRARY.

The Report of the Joint Library Committee for 1939 is printed as Appendix C to this Report.

#### V. OTHER ACTIVITIES.

(1) *Advisory Research Council of the Chemical Society.*

The Advisory Research Council of the Chemical Society was formed in September 1939. Its object is to act as a liaison between Chemists engaged in unremunerated research who are seeking guidance as to subjects for investigation of potential value to the national war effort and Government departments or industrial organisations in a position to suggest such topics. It is no part of its functions to exercise control over research work undertaken at its suggestion.

Research workers at home and in the Dominions have offered whole-hearted co-operation, and the Advisory Research Council hopes to avail itself of all these offers in due course. A large number of suggestions for investigation have already been received and implemented.

(2) *Scheme of Co-operation.*

The new Scheme of Co-operation for the three Chartered Chemical Bodies referred to in the last Report was received by the Council in March. It was approved in general principle, and certain proposed alterations were forwarded to the Chemical Council for their consideration. Further reference to the scheme will be found in the Fourth Annual Report of the Chemical Council (see Appendix A).

(3) *Centenary Celebrations.*

In September the work of the various Committees appointed to make arrangements for the celebration of the Society's Centenary in 1941 was temporarily suspended. The matter will receive further consideration by the Council at the earliest appropriate time.

(4) *Central Register of the Ministry of Labour and National Service.*

At the request of the Ministry of Labour and National Service, the Council co-operated with kindred bodies, including the Institute of Chemistry and the Society of Chemical Industry, in the preparation of a Central Register of Chemists, and, with this object, all Fellows not members of the other two bodies mentioned were circularised in May.

*(5) Standardisation of Thermodynamical and Physico-Chemical Symbols.*

During the year the Royal Society adopted, with a few minor alterations, the report on symbols with conventions relating to their use prepared in 1937 by a committee of the Chemical, the Faraday, and the Physical Societies, and the three Societies jointly accepted the alterations. This marks a further step in establishing a uniform usage of symbols among physicists and chemists. The Royal Society has set up a small Joint Standing Committee for Symbols and Abbreviations, and two representatives of the Chemical Society have been appointed to serve on this committee.

*(6) Grants for Research.*

Applications for grants amounting to £726 7s. for research were received, and grants amounting to £404 were allotted. In view of the abnormal conditions and the consequent changes in the programmes of many research workers, it was resolved to hold a further meeting of the Research Fund Committee, to consider applications for grants, in March 1940.

**VI. ADMINISTRATION.***(1) Personnel of Council.*

At the Annual General Meeting on the 30th March, Professor F. G. Donnan retired from the Presidency at the end of his term of office, and Sir Robert Robinson was elected President. Also, Dr. H. J. T. Ellingham resigned the office of Honorary Secretary, and Professor G. M. Bennett was elected in his place. The Council expressed their high appreciation of the valuable services Professor Donnan and Dr. Ellingham had rendered to the Society. Mr. F. P. Dunn, who was appointed Deputy Treasurer during 1938, was elected Treasurer.

In June the Council accepted with great regret the resignation of Professor J. W. Cook from the office of Honorary Secretary as from the 30th September. He was appointed a Co-opted Member of Council until the next Annual General Meeting, and Professor W. Wardlaw was appointed Honorary Secretary until then.

The new Scheme for the territorial representation on Council came into operation at the last Annual General Meeting.

*(2) Chairman of Publication Committee.*

In April, Professor T. S. Moore completed his term of office of five years as Chairman of the Publication Committee and was succeeded by Professor S. Sugden. The Council expressed their high appreciation of the services Professor Moore had rendered to the Society.

*(3) Local Representatives.*

The terms of office of a number of Local Representatives expired during 1939. The Council have expressed to those who have retired from office their sincere thanks for the services they have rendered to the Society, and have made the following appointments :

<i>Cambridge :</i>	Dr. F. B. Kipping	in place of Professor R. G. W. Norrish.
<i>Leeds :</i>	Dr. J. W. Baker	„ Professor F. Challenger.
<i>Manchester :</i>	Dr. R. Fraser Thomson	„ Dr. E. H. Rodd.
<i>Newcastle and Durham :</i>	Dr. W. A. Waters	„ Dr. R. Raper.
<i>North Wales :</i>	Dr. G. R. Ramage	„ Dr. A. E. Bradfield.
<i>Nottingham :</i>	Mr. J. C. Roberts	„ Dr. B. D. Shaw.
<i>St. Andrews and Dundee :</i>	Dr. J. D. M. Ross	„ Dr. J. L. A. Macdonald.
<i>Sheffield :</i>	Dr. A. W. Chapman	„ Dr. S. Glasstone.

It was decided that one Local Representative should be appointed for Eire and Northern Ireland, to alternate between the two, and the Council are glad to announce that Professor T. J. Nolan (Dublin) has accepted this office.

In September the Council learned with regret of the death of Mr. Reginald Craven, who had been Local Representative at Aberdeen since 1932. Mr. T. Harold Reade was appointed to this office. Dr. G. H. Christie and Dr. E. G. V. Percival consented to deputise respectively for Dr. W. A. Waters (Newcastle and Durham) and Dr. J. A. V. Butler (Edinburgh) during their temporary absence from the districts they represent.

The Council authorised the Treasurer to refund expenses of Local Representatives up to the sum of £10 per annum for each Local Representative and to keep an annual reserve of £50 to be used at his discretion. Expenses of Local Representatives include all sums expended by them in connection with the work of the Society in their areas and the travelling expenses of Lecturers up to such amount as may be determined from time to time by the Council.

## VII. FINANCE.

### (1) *Contributions.*

The Council have gratefully acknowledged the substantial contributions received towards the cost of the Society's publications for 1939 :

£600 from the Government Publications Grant (through the Royal Society).  
£1150 from the Chemical Council.

The Council have expressed their thanks to Professor P. P. Bedson for his contribution of five guineas to the Centenary Fund to mark the completion of his 60 years of Fellowship, and to the following Fellows who have again subscribed to the Publications Fund :

Messrs. P. Appleyard, J. Christie, P. K. Dutt, J. A. N. Friend, W. E. Garner, W. E. Kirkbride, W. H. Lewis, D. H. Peacock, R. H. A. Plimmer, W. G. Polack, J. E. B. Price, Sir David Rivett, H. G. Rule, F. C. Smith, R. B. Turbutt, G. W. Young, and to Mr. T. McLachlan, who has signed a deed of covenant for seven years to contribute £2 a year.

Thanks have also been conveyed to Messrs. C. R. Beck, A. Bracher, M. Brent, R. H. Cocks, A. J. B. Cooper, F. S. H. Head, H. Hollings, R. L. Jenks, G. Kaufman, R. J. B. Marsden, J. C. Mellersh, A. N. Stephenson, W. H. Woodcock, and the Sanitas Co., Ltd., for giving volumes of the Society's publications, and to Mr. E. W. Lucas for presenting a copy of a print of "The Chymist" by David Tenniers, the younger (probably made about 1670).

### (2) *Gilles Bequest.*

The Council are gratified to announce that under the will of the late Mr. William Setten Gilles one-fourth part of his estate has been bequeathed to the Society for the Research Fund. The total amount of the bequest will be about £3500, of which £2000 has already been received and invested in Conversion 3½ per cent. Loan, 1961, or after. The income from this bequest will add substantially to the sum available each year for Research Grants.

## VIII. RELATIONS WITH OTHER BODIES.

### (1) *Chemical Council.*

The Fourth Annual Report of the Chemical Council is reproduced in Appendix A.

### (2) *Representatives of the Society on other Bodies.*

During 1939, the Society was represented as follows :

#### *Bristol University Court :*

Professor F. G. Donnan.

#### *British National Committee for Chemistry :*

Professor F. G. Donnan, Mr. F. P. Dunn (Treasurer), the Senior Secretary.

#### *British Standards Institution :*

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

#### *Technical Committees :*

Co-ordinating the work of the Divisional Councils in regard to any British Standard which may be issued in future for units, etc. : Dr. H. J. T. Ellingham.

Specifications for Materials and Plant used in Electroplating : Dr. U. R. Evans.

Standardisation of Scientific Glassware : Mr. F. R. Ennos and Dr. E. B. Hughes.

Standards for use in Dairying Chemistry : Mr. Eric Voelcker.

Standardisation of Letter Symbols : Dr. C. F. Goodeve.

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*Bureau of Chemical and Physiological Abstracts :*

Dr. C. W. Davies (Hon. Secretary), Mr. F. P. Dunn (Treasurer), Professor C. R. Harington,  
Dr. G. A. R. Kon, and Professor R. G. W. Norrish.

*Chemical Council :*

Professor F. G. Donnan, Professor I. M. Heilbron, Sir Gilbert T. Morgan.

*City and Guilds of London Institute :*

The President.

*Faraday Society :*

Colloid Committee : Mr. D. C. Henry.

*Home Office :*

Air Raid Precautions Department : Mr. J. Davidson Pratt.

*Joint Library Committee :*

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

*Lawes Agricultural Trust :*

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

*Royal Microscopical Society :*

Standardisation of Biological Stains : Professor A. G. Green.

*Royal Society :*

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

(3) *Representatives of the Society at Public Functions.*

25th Anniversary Celebration of the foundation of the Société de la Chimie Biologique,  
Paris, 25th and 26th May : Professor J. C. Drummond and Professor A. R. Todd.

Dinner of the International Conference of Leather Trades Chemists, London, 30th August :  
The President.

Delegates were also appointed to represent the Society at the 200th Anniversary Celebrations of the foundation of the Royal Swedish Academy of Sciences to be held in Stockholm from the 23rd to 25th September; at the XIX Congrès de Chimie Industrielle to be held at Warsaw from the 24th September to the 1st October, and at the Centenary Celebrations of the Royal Microscopical Society to be held in London on the 25th and 26th October. These functions were postponed.

Addresses of Congratulations were sent to the Société de la Chimie Biologique and to the Royal Swedish Academy of Sciences. The text appeared in the *Proceedings*, pp. 43 and 50.

**IX. ACKNOWLEDGEMENTS.**

The Council express their gratitude and thanks to those Fellows who have freely given their services to the Society during the year, including Local Representatives, those serving on Committees, refereeing papers for the *Journal*, contributing to the *Annual Reports*, giving Lectures and opening Discussions.



**APPENDIX A.****FOURTH ANNUAL REPORT OF THE CHEMICAL COUNCIL.**

The Chemical Council was constituted in July 1935, the object being to raise and administer a fund for the following purposes—(1) to assist the Chemical Society and the Society of Chemical Industry to meet the cost of their publications, (2) to promote research, (3) to provide for the maintenance of the Library of the Chemical Society, and (4) eventually, to provide adequate premises; also to co-ordinate the activities and administration of the Chartered Chemical Bodies in relation to the above object and purposes.

The Financial Statements for the year ended 30th September, 1939, are attached.

The Second Annual Report, published on 6th December, 1937, contained the list of contributors to 22nd November, 1937. A short supplementary list was included in the Third Annual Report published on 26th January, 1939.

The Council is gratified to be able to report that it has received from Sir Robert Mond's Executors a payment of £6500 in respect of his generous promise. This will be invested for the Endowment Fund, the interest on which is made available for current purposes.

No further appeal has been issued, and the time is hardly opportune, but the Council feels it incumbent on it to repeat the opinion that the cost of chemical publications should be borne more substantially by chemists themselves, and that every chemist should take his share in defraying the cost of publications which are so essential to his professional work.

In the Third Annual Report the Council stated that its efforts had been mainly directed to the evolution of a scheme, the object of which was to distribute the burden of the cost of publications more equitably over the membership of the three Chartered Chemical Bodies. In the hope that something definite and useful might result, that scheme was submitted to the Councils of the three Bodies as a basis for discussion; but practical considerations necessitated a review of the whole subject, and the Council has now prepared a new scheme whereby chemists who join more than one Body may derive additional benefits, at less cost than the combined subscriptions to two or three Bodies, in addition to other privileges.

With certain reservations the new Scheme has been received with general approval by the Councils of the three Bodies. Before the outbreak of war the Solicitors to the Council were asked to prepare the heads of agreement governing the proposed extended scheme of co-operation. The Council hopes to complete the Agreement and have it ready for submission to the three Bodies for their final approval as soon as conditions appear favourable for launching the scheme.

Contracts were negotiated for printing and paper supplies during 1939, but in the prevailing circumstances, with rapid fluctuation in costs, the Council considers it more practicable for the Societies to conduct this business for themselves.

A Joint Committee collaborated early in the year on means to be taken for the safe preservation of essential and valuable property of the Societies in the event of war, in the arrangements with regard to meetings, lectures, and examinations; also with regard to paying allowances, in appropriate instances, to members of the staffs on their being called up for active service or becoming engaged on work of national importance.

The Council has also had under further consideration the problem of centralising routine office work and the distribution of publications.

The Council has continued to deal with reports received from the Joint Library Committee and has provided for the representation thereon of the various contributing societies:

*Association of British Chemical Manufacturers :*

Dr. F. H. Carr.

*Biochemical Society :*

Dr. W. Robson.

*Faraday Society :*

Professor J. R. Partington.

*Institute of Brewing :*

Mr. H. W. Harman.

*Institute of Chemistry :*

Professor H. V. A. Briscoe, Mr. H. W. Cremer, Dr. J. J. Fox, Dr. E. Vanstone.

*Society of Chemical Industry :*

Dr. H. E. Cox, Dr. L. A. Jordan, Dr. Rudolph Lessing.

*Society of Dyers and Colourists :*

Mr. J. Blair.

*Society of Public Analysts :*

Dr. C. Ainsworth Mitchell.

*Chemical Society :*

Professor A. J. Allmand, Professor H. Bassett, Dr. O. L. Brady, Professor C. H. Desch, Mr. M. B. Donald, Dr. H. J. Emeléus, Dr. C. F. Goodeve, Dr. Paul Haas, Professor C. R. Harington, Dr. T. A. Henry, Dr. E. W. McClelland, Dr. E. E. Turner, Professor Wm. Wardlaw, Dr. J. C. Withers.

The contributions of the three Chartered Bodies towards the maintenance cost of the Chemical Library during 1938 were calculated proportionately on the number of members respectively who had paid their annual subscriptions for that year—taking into account donations received from other sources and a sum of £250 contributed by the Council itself under Section 7 of the Constitution.

The amounts received from the three Chartered Bodies were : the Chemical Society, £346 16s. 1d. ; the Institute of Chemistry, £715 5s. 9d. ; the Society of Chemical Industry, £382 18s. 8d.

The pressing necessity for further accommodation for the Library has been temporarily relieved through the kindness of Messrs. Edward Arnold & Co., who have provided storage for a quantity of less-used serial publications, without charge or cost to the Chemical Society. The thanks of the chemical profession are proffered to the firm and to Mr. F. P. Dunn, one of the partners, to whose good offices the arrangement is due.

Grants have been made to both Societies towards the increasing cost of publications, and loans have been advanced to meet current needs.

The Council has also agreed to contribute £500 to the cost of the Collective Index of the Bureau of British Chemical and Physiological Abstracts, of which £250 has already been paid.

In view of the importance of economy in the production of journals and the need for paper restrictions, the Council welcomed an article on " Presentation of Original Publications " contributed by Sir Gilbert Morgan to *The Journal of the Institute of Brewing* and reproduced in other scientific and technical journals.

The Council has been informed that the representatives of the publishing societies have held conferences, with a view to their mutual co-operation, in the problem of recruitment of membership.

Sir Gilbert T. Morgan, O.B.E., D.Sc., F.R.S., one of the representatives of the Chemical Society, has retired from the Council on completing his term of office, and the Council of the Chemical Society has been asked to nominate a representative to fill the vacancy.

Mr. F. G. Edmed, O.B.E., who has served as a representative of the Institute of Chemistry from the formation of the Council, has retired, and Dr. Harold A. Tempany, C.B.E., has been appointed as his successor.

Dr. A. E. Dunstan and Dr. R. E. Slade, M.C., who have been Members of Council since 1935 and 1936, respectively, as representatives of Industry, have also retired, and the Association of British Chemical Manufacturers has been asked to nominate candidates to fill the vacancies thus caused.

The Council will proceed to the appointment of Officers for the ensuing year when nominations for the vacancies referred to above have been received.

The Council has recorded its appreciation of the services rendered by its retiring colleagues.

The Council records its indebtedness to Mr. F. P. Dunn for advice on matters relating to printing and paper supplies.

The Council again wishes to express its great appreciation of the services given by Mr. Richard B. Pilcher, as Honorary Secretary, and by the staff of the Institute of Chemistry—services which have been to the good of the chemical profession as a whole.

LESLIE H. LAMPITT,  
*Chairman.*

30 Russell Square,  
London, W.C. 1.

December, 1939.

## APPENDIX B

REPORT OF THE BUREAU OF CHEMICAL AND PHYSIOLOGICAL ABSTRACTS  
FOR 1939.

During the year six meetings of the Bureau were held, and also a meeting of the Chairman and Honorary Treasurers to consider matters relating to Indexing; three meetings of the B Abstracts Sub-Committee; a meeting of the A III Abstracts Sub-Committee, and a meeting of the Finance Committee.

Professor C. R. Harington has been appointed by the Chemical Society to fill the vacancy caused by the death of Mr. Emile Mond and the appointment of Mr. F. P. Dunn as Hon. Treasurer of the Chemical Society, and Dr. H. J. T. Ellingham has been appointed to take the place of Professor R. G. W. Norrish (resigned); Mr. R. R. Bennett has been appointed to represent the Society of Chemical Industry on the Bureau in place of Mr. W. Macnab.

The Sub-Committee appointed in 1938 to consider the question of the unification of financial control of the Bureau has been discharged and a Finance Committee has been formed consisting of the Chairman of the Bureau ex officio, and the Hon. Treasurers of the Chemical Society, Society of Chemical Industry, and Physiological Society.

Dr. F. L. Usher has been given editorial charge of the section of A I, previously dealt with by Professor H. M. Dawson, whose death occurred in March. Professor Dawson had assisted the Bureau in this direction since its inception in 1924.

*Abstracts.*—The total number of abstracts published during 1939 was 38,821, as compared with 41,677 in 1938, a decrease of 2856. The appended table shows the number of abstracts and pages printed in each quarter of 1939 and 1938.

	A I.				A II.			
	1938.		1939.		1938.		1939.	
	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.
1st quarter .....	2075	164	1882	164	683	120	713	134
2nd ,, .....	2065	170	2119	182	773	132	875	160
3rd ,, .....	1778	150	1688	154	811	134	906	170
4th ,, .....	1900	160	1430	128	714	132	574	102
	<u>7818</u>	<u>644</u>	<u>7119</u>	<u>628</u>	<u>2981</u>	<u>518</u>	<u>3068</u>	<u>566</u>
Average length	0.165 Column		0.177 Column		0.347 Column		0.370 Column	

  

	A III.				B.			
	1938.		1939.		1938.		1939.	
	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.	No. of Abs.	Pages.
1st quarter .....	2897	252	4394	344	4010	326	3803	334
2nd ,, .....	3490	294	3818	296	4869	414	3656	340
3rd ,, .....	2909	228	3157	246	4439	368	3628	332
4th ,, .....	3658	292	2959	228	4606	404	3219	298
	<u>12,954</u>	<u>1066</u>	<u>14,328</u>	<u>1114</u>	<u>17,924</u>	<u>1512</u>	<u>14,306</u>	<u>1304</u>
Average length	0.164 Column		0.155 Column		0.170 Column		0.182 Column	

Of the 14,206 B abstracts, 8509 were from journal literature and 5797 were abstracts of Patents (figures for 1938: 11,704 and 6170, respectively). The decrease of about 10 per cent. in the number of abstracts in A I will be noted; it is only partly due to the absence of abstracts from German publications during the last quarter of the year. The increase in A II, on the other hand, would have been even more marked if the full supply

of German journals had been received. The increase in A III is due partly to the inclusion of more abstracts on anatomical papers and partly to a more complete survey of the literature. The decrease in the B Abstracts is due chiefly to the fact that in 1938 a large number of new journals were abstracted and in many instances the 1937 issues of these were also reviewed for the sake of completeness; the war conditions also influenced the last quarter's abstracts to a minor degree.

*Annual Index.*—The joint Annual Index to the Abstracts for 1938 covered 976 pages, an increase of 153 over the 823 pages of the 1937 Index. The cost of printing the Index was £1987 10s. and cost of paper (including handling) £338 0s. 7d. (1937 figures: £1678 14s. 9d. and £318 19s. 6d.). The total number of entries in the Index was 138,050, compared with 119,070 in 1937.

The continued increase in the costs of this Index has led the Bureau to consider means whereby economy could be effected, and, with the approval of the Societies, it was decided in November that the Index should be issued in two sections covering A and B Abstracts respectively, the situation to be reviewed subsequently. It is anticipated that this subdivision will result in a total saving of £500, and will also effect a considerable economy of paper.

*Quinquennial Index.*—The support afforded to the appeal of the Bureau by members and subscribers, together with the very generous contributions promised by the Chemical Society and the Society of Chemical Industry, were sufficient to enable the Bureau to proceed with the preparation of the Collective Index to the Abstracts covering the period 1933–1937.

Thanks largely to the persistent efforts of the Chairman, grants of £500 each have also been obtained from the Royal Society and the Chemical Council towards the cost of the publication.

Five printing firms were invited to tender for the work, and the contract was finally awarded to Messrs. Butler & Tanner, of Frome, who submitted the lowest estimate.

An additional room at the Charing Cross Road indexing premises has been leased for the work and two whole-time assistants have been engaged.

Composition of the Index was begun in August, and approximately one-half of the name index has now been set up. In order to minimise corrections, the whole of each volume is to be set up in galley form before being made up into pages.

It is hoped to issue the Author Index during the summer of 1940.

*B Abstracts.*—The Sub-Committee held three meetings to consider and report on possible means for effecting economies in B Abstracts. The Committee reported that there appeared little possibility of economising in the direction of curtailing the abstracts without severely affecting their value, but they considered that considerable saving might be brought about in two ways:

- (1) By issuing the abstracts in three sections, each to be sent only to those interested in that section.
- (2) By arranging with various abstracts issuing organisations particularly those operating under the ægis of the Department of Scientific and Industrial Research to make use of their abstracts, with suitable acknowledgment.

These recommendations were adopted by the Bureau, with the exception that it was decided to recommend that "B" Abstracts be issued in two sections, covering broadly industrial inorganic and industrial organic chemistry.

Members of the Society of Chemical Industry were asked by the Council of the Society to state whether in the event of B abstracts being divided into two sections, they would require both sections or only one section, but the number who would require only one section was so small that no economy in that direction seemed possible. As regards recommendation (2), the Society expressed general approval of the scheme. Negotiations with the Department of Scientific and Industrial Research are now in progress.

*Abstracts A III.*—The arrangement mentioned last year, whereby through collaboration with the Anatomical Society of Great Britain and Ireland a larger number of abstracts on anatomical subjects should be published, was put into effect in February, and the classification of Section A III was appropriately extended to include these additional abstracts. This section of the Abstracts has been further extended by the inclusion of notices of important new books.

Satisfactory arrangements have been made to continue publishing abstracts of papers appearing in foreign journals.

With few exceptions all the regular abstractors are still available.

## APPENDIX C

### REPORT OF THE JOINT LIBRARY COMMITTEE FOR 1939.

Excluding the evenings on which meetings of the Chemical Society were held, there were 7009 attendances during the year, as compared with 8507 in 1938. Of these 3926 were made by Fellows of the Chemical Society, and 3083 by Members of other Constituent and Contributing Bodies, as against 4803 and 3704 in 1938.

The number of books borrowed was 4861, against 5948 in the previous year. Of these 1444 were issued by post, compared with 1697 in the preceding year.

The Library telephone facilities are still extensively used, and the incoming calls included 962 enquiries which necessitated reference to books in the Library, as against 1057 the previous year.

The additions to the Library comprise :

251 books, of which 56 were presented, 723 volumes of periodicals and 242 pamphlets, as against 250 books, 744 volumes of periodicals and 283 pamphlets last year.

#### *Analysis.*

	Attendances.	Books borrowed.	Additions to Library.		
			Books.	Volumes of periodicals.	Pamphlets.
1939 .....	7009	4861	251	723	242
1938 .....	8507	5948	250	744	283

The total number of volumes added during the year was 974. The Library now contains 43,646 volumes, consisting of 13,052 books and 30,594 bound volumes of periodicals.

The Committee wishes to record its grateful appreciation of the gifts received from Fellows and others during the year; these included 15 medals from those belonging to the late Professor Henry E. Armstrong, presented by Dr. E. F. Armstrong, and 70 volumes of the "Biochemische Zeitschrift" from Dr. Bruno Rewald. These volumes being duplicates are available for loan purposes.

The question of Library accommodation still causes grave concern, but is necessarily in abeyance on account of the national emergency.

In the early part of the year a collection of the more valuable books was sent out of London. The thanks of the Committee are due to Professor J. L. Simonsen, F.R.S., for kindly arranging for their reception, and to the authorities of the University College of North Wales for their courteous action in providing the necessary accommodation.

In accordance with an earlier decision of the Council, the Library was closed on the outbreak of war. It re-opened on September 15th, but on account of abnormal conditions and the depletion of the already minimum staff by the absence of Mr. A. T. Picton, B.A., on military service, a curtailment of the normal hours of opening was found necessary. Subject to these limitations, the Library continues to give the fullest possible service.

## APPENDIX D

## LECTURES AND DISCUSSIONS.

*Lectures given in London.*

29th March, Rutherford Memorial Lecture, by Sir Henry Tizard; 18th May, Seventh Liversidge Lecture, entitled "Some Considerations on the Nature of Catalysis," by Professor C. N. Hinshelwood; 16th November, on "Synthetic Immunochemistry," by Professor C. R. Harington; 14th December, Tilden Lecture entitled "The Present State of Valency Theory," by Dr. L. E. Sutton.

*Discussions held in London.*

9th February, on "The Use of Isotopes in Biology," opened by Professor Dr. G. von Hevesy (Joint discussion with the Physiological Society); 2nd March, Symposium on "Microtechnique in Organic Chemistry," opened by Professor I. M. Heilbron; 4th May, on "The Upper Atmosphere," opened by Professor F. A. Paneth (Joint discussion with the Physical Society and the Royal Meteorological Society).

*Lectures given outside London.*

*Aberdeen.* At Marischal College (Joint meeting with the Aberdeen and North of Scotland Section of the Institute of Chemistry); 17th February, on "Ions and Isotopes," by Professor J. Kendall.

*Birmingham.* At the University, Edgbaston (Joint meetings with the Birmingham University Chemical Society): 23rd January, on "Recent Synthetic Studies on Immunochemistry," by Professor C. R. Harington; 30th January, on "The Structure of Sesquiterpenes and their Derivatives," by Professor J. L. Simonsen; 27th February, on "The Molecular Structure of Starch," by Professor E. L. Hirst.

*Bristol.* At the University (Joint meeting with the Bristol Section of the Society of Chemical Industry); 2nd February, on "The Natural Organic Tannins," by Dr. M. Nierenstein.

*Edinburgh.* At the North British Station Hotel (Joint meeting with the Institute of Chemistry and the Society of Chemical Industry): 27th January, on "Carcinogenic Chemical Compounds," by Professor J. W. Cook.

*Glasgow.* At the Royal Technical College: 17th February, on "The Hydrogen Bond," by Dr. J. Monteath Robertson.

*Liverpool.* At the University: 6th February, on "Electrocapillarity, with Special Reference to Liquids of Low Ionic Content," by Mr. D. C. Henry.

*Manchester.* At the University: 7th February (Joint Meeting with the Manchester University Chemical Society) on "Colour Photography Treated from the Chemical Standpoint," by Mr. L. V. Chilton; at the Engineers' Club, Albert Square: 20th March (Joint Meeting with the Institution of the Rubber Industry and the Society of Chemical Industry) on "The Mechanism of Polymerisation Reactions," by Dr. H. W. Melville.

*Newcastle and Durham.* Bedson Lectures at King's College, Newcastle-on-Tyne: 27th January, on "The Dimensions of some Organic Molecules," by Dr. J. Monteath Robertson; 23rd February, on "Some Scientific and Technical Applications of Photography," by Dr. O. F. Bloch; 8th May, on "Water Pollution," by Sir Robert Robertson.

*North Wales.* At the University College of North Wales, Bangor: (Joint meetings with the University College of North Wales Chemical Society): 3rd February, on "Nucleic Acids," by Professor J. M. Gulland; 1st December, on "Explosives," by Dr. O. L. Brady.

*St. Andrews and Dundee.* At the University: 24th February (Joint meeting with the St. Andrews University Chemical Society) on "The Structure of Sesquiterpenes and their Derivatives," by Professor J. L. Simonsen.

*Sheffield.* At the University: 27th January, on "Some Problems in the Chemistry of Iodine," by Dr. Irvine Masson; 24th February, on "The Chemistry of Vitamin-E," by Professor A. R. Todd.

*South Wales.* At the University College, Swansea (Joint meetings with the University College of Swansea Chemical Society): 3rd February, on "Reactions involving Proton Transfer," by Professor W. F. K. Wynne-Jones; at the Royal Institution of South Wales, Swansea; 7th December, on "Two Types of Diamonds," by Sir Robert Robertson.

*Discussion held outside London.*

*Oxford.* At the University Museum (Joint meeting with the Oxford University Alembic Club): 3rd June, on "Free Radicals in Organic Reactions," opened by Professor C. N. Hinshelwood.





INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1939.

PUBLICATIONS FUND.							
1938		1939		1938		1939	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
095	14 9	3250	16 5	1159	19 6	894	19 2
101	2 7	Journals and Proceedings ... ..	2089	10 5	By Expenses on account of Journal	85	12 6
17	15 6	Abstracts A, A VI ... ..	6 0 4	38	Editorial Salaries ... ..	33	10 8
60	0 0	Collective Index, Vols. I-VI ... ..	20 0 0	4002	Editorial Pages ... ..	3673	6 6
046	1 10	Annual Reports on Progress of Chemistry ... ..	1032 6 8	43	Printing and Paper ... ..	39	1 4
—	—	Authors' Extra Reprints ... ..	286 12 8	15	Banding—Fellows ... ..	14	12 7
2 12 10	6323 7 6	Other Publications ... ..	3 12 5	602	Distribution—Fellows ... ..	516	0 7
611	14 9	Proceeds of Advertisements: £ s. d.	6669 9 11	188	Authors' Reprints ... ..	153	0 10
72	4 0	Journal ... ..	502 2 5	354	Subscribers ... ..	639	7 4
—	—	Annual Reports ... ..	80 19 6	11	Miscellaneous ... ..	18	6 11
683	18 9	Less Commission ... ..	583 1 11	320	Overhead Expenses (Proportion) ... ..	320	0 0
206	15 9	A I, A II ... ..	171 0 8	—	Expenses on account of Abstracts A I, A II:	6651	13 0
26	6 4	Less Commission ... ..	49 13 5	826	Editorial Salaries ... ..	894	19 2
8	0 1	Less Commission ... ..	14 0 0	10	General Station ... ..	10	16 8
—	—	Donations: ... ..	447 14 8	59	Editorial Pages ... ..	44	16 2
12	2 6	Fellows ... ..	35 13 5	1130	Abstracts—Fees ... ..	1163	13 8
000	0 0	Chemical Council ... ..	1000 0 0	3093	Printing and Paper ... ..	2810	2 1
150	0 0	" in Journal ... ..	180 0 0	55	Banding ... ..	41	2 5
—	—	" for Summaries to Papers ... ..	12 12 6	20	Fellows ... ..	91	3 6
1162	2 6	Government Publications Grant (through the	1162 12 6	251	Subscribers ... ..	234	8 3
600	0 0	Royal Society) ... ..	600 0 0	80	Distribution—Fellows ... ..	79	6 4
315	15 9	Dividends on Investments ... ..	289 16 10	115	Miscellaneous ... ..	112	7 1
99	17 10	Income Tax recovered ... ..	118 17 6	270	Overhead Expenses (Proportion) Chemical	170	0 0
6184	14 0	Transfer from General Purposes Account (the	5618 10 5	—	Society ... ..	141	6 9
—	—	balance of expenditure on publications) ... ..	—	—	Chemical Industry ... ..	5654	2 1
—	—	Agreed contribution to Abstracts A III ... ..	1300 0 0	—	Special non-recurrent contribution to	200	0 0
—	—	Abstracts A III ... ..	1300 0 0	—	Abstracts A III ... ..	1500	0 0
—	—	Reserve for Quinquennial Index, 1933-1937	300 0 0	—	Annual Reports on the Progress of Chemistry:	300	0 0
—	—	Printing and Honoraria ... ..	876 17 0	—	Printing and Honoraria ... ..	801	6 9
—	—	—	£15,182 10 10	—	—	£14,907 1 10	
—	—	—	£15,182 10 10	—	—	£14,907 1 10	



INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1939.

RESEARCH FUND.		
	1939	1938
	£ s. d.	£ s. d.
<b>Income.</b>		
To Dividends on Investments	448 5 9	— — —
" Income Tax recovered	163 13 4	— — —
" Repayment of Grants	94 3 9	703 8 0
" Grants not applied for	10 0 0	6 17 0
" Interest on Deposit	12 4 6	— — —
" Interest on Loan to General Purpose Account	3 9	— — —
" Sale of Apparatus	— — —	— — —
" Excess of Expenditure over Income carried to Balance Sheet	— — —	— — —
	<u>£728 11 1</u>	<u>£710 5 0</u>
	710 5 0	
<b>Expenditure.</b>		
By Honorary, Longstaff Medallist	— — —	— — —
" Longstaff Medal	— — —	— — —
" Grants	— — —	— — —
" Miscellaneous Expenses	— — —	— — —
" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	— — —	— — —
	<u>£728 11 1</u>	<u>£728 11 1</u>

SPECIAL PUBLICATIONS FUND.

	1939	1938
	£ s. d.	£ s. d.
<b>Income.</b>		
To Sales of Publications:		
Memorial Lectures, Vol. I.	3 17 0	5 9 8
Do. Vol. II.	4 7 6	21 3 1
Do. Vol. III.	5 3 8	77 8 10
List of Fellows...	2 8 0	— — —
Portraits...	2 3 10	— — —
Faraday Lectures	3 6 10	— — —
Perkin Memorial Volume	9 10	— — —
Lecture on "Modern Chemical Nomenclature"	1 3	— — —
Report on Physico-Chemical Symbols	2 1 3	— — —
Dividend on Investments	22 19 1	— — —
" Interest on Deposit	74 0 8	— — —
" Interest on Loan to General Purposes Account	2 6 0	— — —
"	1 9 4	— — —
	<u>£104 1 7</u>	<u>£104 1 7</u>
	104 1 7	
<b>Expenditure.</b>		
By Production of Report on Physico-Chemical Symbols	— — —	— — —
" Reprints for Memorial Lectures, Vol. IV.	— — —	— — —
" Excess of Income over Expenditure carried to Balance Sheet	— — —	— — —
	<u>£100 15 1</u>	<u>£100 15 1</u>

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1939.

SPECIAL LECTURES FUND.

1938		1939		1939					
£	s. d.	£	s. d.	£	s. d.				
39	8 1	To Dividends on Investments	29	0 0	By Honorarium	...	...	...	...
5	15 7	" Income Tax recovered	6	7 1	" Lecture Expenses	...	...	...	...
5	4	" Interest on Deposit	...	...	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...	...	...	12 6 10
---	---	" Interest on Loan to General Purposes Account	18	3					
---	---	" Balance, being Excess of Expenditure over Income, carried to Balance Sheet	---	---					
7	1 5								
<u>£52 10 5</u>		<u>£46 8 10</u>		<u>£52 10 5</u>				<u>£46 8 10</u>	

STAFF PENSIONS FUND.

1938		1939		1939					
£	s. d.	£	s. d.	£	s. d.				
77	19 2	To Transfer from General Purposes Account	38	18 0	By Pension paid during 1939	...	...	...	...
37	7 10	" Dividends on Investments	35	19 10					
4	13 0	" Income Tax recovered	5	2 2					
<u>£120 0 0</u>		<u>£80 0 0</u>		<u>£120 0 0</u>				<u>£80 0 0</u>	

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

1938		1939		1939					
£	s. d.	£	s. d.	£	s. d.				
39	5 8	To Dividends on Investments	38	11 2	By Harrison Prize	...	...	...	...
12	11 0	" Income Tax recovered	13	16 0	" Harrison Plaque	...	...	...	...
1	4 6	" Interest on Deposit	14	5	" Miscellaneous Expenses	...	...	...	...
---	---	" Excess of Expenditure over Income, carried to Balance Sheet	103	13 5	" Balance, being Excess of Income over Expenditure, carried to Balance Sheet	...	...	...	...
<u>£52 19 2</u>		<u>£156 15 0</u>		<u>£52 19 2</u>				<u>£156 15 0</u>	

INCOME AND EXPENDITURE ACCOUNTS OF OTHER FUNDS FOR THE YEAR ENDED 31ST DECEMBER, 1939.

CENTENARY FUND.			
	1938	1939	1939
	£ s. d.	£ s. d.	£ s. d.
<i>Income.</i>			
To Donations ... ..	—	5 5 0	62 10 0
„ Contribution from General Purposes Account ... ..	200 0 0	200 0 0	160 17 1
„ Interest on Deposit in Post Office Savings Bank ..	14 19 7	14 19 7	...
„ „ Loan to General Purposes Account ... ..	3 2 6	3 2 6	...
	£367 1 3	£367 1 3	£223 7 1
<i>Expenditure.</i>			
By Honorarium ... ..	357 1 3	...	...
„ Excess of Income over Expenditure carried to Balance Sheet ... ..	...	...	...
	£223 7 1	£223 7 1	£221 15 0
THE HERBERT SPENCER BEQUEST.			
	£ s. d.	£ s. d.	£ s. d.
To Interest on Deposit in Post Office Savings Bank ... ..	200 0 0	4 14 1	200 0 0
„ Interest on Loan to General Purposes Account ... ..	1 0 10	1 0 10	21 15 0
„ Excess of Expenditure over Income carried to Balance Sheet ... ..	216 0 1	216 0 1	...
	£279 12 2	£279 12 2	£221 15 0
THE FARADAY LECTURE FUND.			
	£ s. d.	£ s. d.	£ s. d.
To Dividends on Investments ... ..	9 10 4	0 2 8	11 6 5
„ Income Tax recovered ... ..	1 16 1	...	...
„ Interest on Deposit... ..	...	...	...
	£11 6 5	£0 2 8	£11 6 5
THE TILDEN LECTURE FUND.			
	£ s. d.	£ s. d.	£ s. d.
To Dividends on Investments ... ..	51 16 9	...	15 15 0
„ Income Tax recovered ... ..	8 8 0	...	14 1
„ Interest on Deposit ... ..	5 5 2	...	44 0 10
	£60 9 11	£60 9 11	£60 9 11

THE CHEMICAL SOCIETY.—BALANCE SHEETS, 31st December, 1939.

GENERAL PURPOSES.			
Liabilities.		Assets.	
1938	1939	1938	1939
£ s. d.	£ s. d.	£ s. d.	£ s. d.
1,000 3 10	To Subscriptions received in advance ...	28,111 16 6	By Investments as per Schedule (cost or value when acquired) ...
3,174 15 2	" Sundry Creditors (Printing and other Expenses) ...	1,874 1 5	" Sundry Debtors ...
300 0 0	" Reserve for Quinquennial Index, 1938-1937 ...	320 0 0	" Subscriptions in Arrear, £531 Gs. 1d. Estimated to realise ...
—	" Loans from other Funds:	—	" Stock of Paper ...
—	Special Publications Fund ...	20 5 8	" Cash in hand ...
—	Centenary Fund ...		
—	Herbert Spencer Bequest ...		
—	Research Fund ...		
	Current Account at Bankers (over-drawn) ...		
1,688 0 5	" Loan, The Chemical Council ...		
2,000 0 0	" Excess of Assets over Liabilities as per last Balance Sheet ...		
22,409 5 5	" Deduct Excess of Expenditure over Income for year ...		
22,121 4 2	Add Life Composition Fees (two-thirds) ...		
42 0 0	Add Profit on Surrender of £700 Canada 3½% Stock ...		
—	22,163 4 2	21,888 19 10	
£30,326 3 7		£30,372 0 10	

PUBLICATIONS FUND.			
RESEARCH FUND.		PUBLICATIONS FUND.	
1938	1939	1938	1939
£ s. d.	£ s. d.	£ s. d.	£ s. d.
324 8 0	To Sundry Creditors ...	14,675 18 0	By Investments as per Schedule (cost or value when acquired) ...
14,771 19 10	" Excess of Assets over Liabilities as per last Balance Sheet ...	388 9 10	" Loan to General Purposes Account ...
—	Add Amount received from Trustees of W. S. Gilles—Legacy ...	—	" Cash at Bank ...
14,771 19 10	Add Excess of Income over Expenditure for year ...		
—	Less Excess of Income over Expenditure for year ...		
22 0 0	14,749 19 10	17,044 1 0	
£15,074 7 10	£15,074 7 10	£17,394 1 0	









SCHEDULE OF INVESTMENTS.

GENERAL PURPOSES.

Nominal Details.	Cost or Value when Acquired.		Market Value 31st December, 1939.	
	£	s. d.	£	s. d.
£787 London, Midland and Scottish Railway 4% Debenture Stock	839	3 7	704	7 4
£1520 14s. 3d. Cardiff Corporation 3% Stock, 1914/54	1650	0 0	1345	16 7
£1400 India 2½% Stock	1316	1 0	840	0 0
£940 Bristol Corporation 2½% Debenture Stock, Bristol Dock Account	2070	2 0	1920	0 0
£2713 London, Midland and Scottish Railway 4% Preference Stock	3572	0 4	1614	4 8
£1200 Leeds Corporation 3% Stock	1143	1 0	912	0 0
£1096 6s. 2d. Union of South Africa 3% Stock, 1954/64	1067	12 10	981	3 11
£1200 London and North Eastern Railway 3% Debenture Stock	1033	11 0	750	0 0
£2529 6s. 9d. 5% Conversion Loan, 1944/64	2446	2 6	2750	13 1
£1100 5% ditto ditto	1045	0 2	1196	5 0
£600 4% Funding Loan, 1960/90	480	0 0	642	0 0
£12,926 9s. 0d. 3½% Conversion Stock, 1961, or after	10,850	2 2	12,150	17 3
£408 3s. 6d. 3% Funding Stock 1959/69	394	11 5	379	11 1
	£27,407	8 0	£26,186	18 11

PUBLICATIONS FUND.

£5260 19s. 9d. 3½% Conversion Stock, 1961, or after	3645	12 8	4945	6 7
£3173 1s. 6d. 5% Conversion Loan, 1944/64	3199	18 7	3460	14 5
£317 P. & O. Steam Navigation Co. Deferred Stock	2060	0 0	878	5 6
£603 London, Midland and Scottish Railway 4% Guaranteed Stock	457	12 7	491	8 11
	£9363	3 10	£9765	15 5

THE TILDEN LECTURE FUND.

£532 London Transport "B" 5% Stock	625	2 0	545	6 0
186 National Provincial Bank Shares 45 each, £1 paid "B"	678	18 0	558	0 0
£220 Metropolitan Water Board (Kent Water Works) 5% Deb. Stock	188	2 0	168	0 0
£376 3s. 6d. 3% Funding Stock 1969/69	842	8 6	349	16 9
	£1834	10 6	£1621	8 9

RESEARCH FUND.

Nominal Details.	Value when Acquired.		Market Value 31st December, 1939.	
	£	s. d.	£	s. d.
£1000 London and North Eastern Railway 4% 2nd Guaranteed Stock	1010	0 0	635	0 0
£1034 Great Western Railway 2½% Debentures	1049	15 11	594	11 0
£1122 Metropolitan Water Board 3% "B" Stock	1608	3 6	908	16 5
£1483 London, Midland and Scottish Railway 4% Debenture Stock	1608	3 6	1327	5 8
£806 Victoria 3% Stock, 1929/49	706	6 2	737	9 10
£4498 11s. 0d. 5% Conversion Loan, 1944/64	4267	4 10	4892	3 6
£8455 18s. 1d. 3½% Conversion Stock, 1961, or after	7131	10 10	7948	11 0
	£16,675	18 0	£17,043	17 5

SPECIAL PUBLICATIONS FUND.

£2115 8s. 10d. 3½% Conversion Stock, 1961, or after	£1800	0 0	£1988	10 4
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SPECIAL LECTURES FUND.

£1299 9s. 4d. 3½% Conversion Stock, 1961, or after	£1000	0 0	£1221	10 0
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STAFF PENSIONS FUND.

£683 6s. 1d. 3½% Conversion Stock, 1961, or after	527	13 9	642	6 1
£371 17s. 1d. 5% Conversion Loan, 1944/64	375	0 0	404	7 10
	£902	13 9	£1046	13 11

THE EDWARD FRANK HARRISON MEMORIAL TRUST FUND.

£61 15s. 8d. 3½% Conversion Stock, 1961, or after	50	1 5	58	1 6
£1256 London, Midland and Scottish Railway 4% Debenture Stock	1051	6 6	1123	4 6
	£1101	7 11	£1181	6 0

THE FARADAY LECTURE FUND.

£374 19s. 0d. 3½% Conversion Stock, 1961, or after	£369	4 0	£352	9 1
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F. P. DUNN,

Treasurer.

23, QUEEN VICTORIA STREET, E.C. 4.

22nd February, 1940.

W. B. KEEN,

Chartered Accountant.

I have examined the above Balance Sheets and accompanying Income and Expenditure Accounts with and Vouchers of the Society, and certify them to be in accordance therewith. I have also verified the Balances at the Bankers and the Investments. Certain figures relating to the Bureau of Chemical and Physiological Abstracts have not yet been subjected to audit by the Auditors of the Bureau and are therefore liable to adjustment.