

# ONE HUNDRED AND SEVENTH ANNUAL GENERAL MEETING.

THE One Hundred and Seventh Annual General Meeting of The Chemical Society was held in the Lecture Theatre of the Physical Chemistry Laboratory, South Parks Road, Oxford, at 12 noon on Thursday, March 18th, 1948. The President, Professor C. N. Hinshelwood, was in the chair.

The notice convening the meeting was read.

In presenting the Report of Council for 1947, copies of which were available, Professor Wardlaw referred in particular to the Centenary Celebrations, an event in the history of the Society which had met with outstanding success. The continued success of the Society was reflected in its steady progress, the high reputation of its publications, and the progressive growth of the Fellowship.

The Publication Committee was dealing with energy and foresight with the difficulties imposed by the shortage of paper, and steps were being taken which would, it was hoped, reduce the delay in publication. The *Quarterly Reviews* had met with immediate success, and the two volumes—"The Chemical Society, 1841—1941" and "British Chemists"—published in connection with the Centenary were recognised to be of outstanding merit.

Professor Wardlaw referred also to the increase in the number of meetings of the Society held outside London during the past year as a sure indication of the expansion of the Society's influence. In conclusion, he referred briefly to the other activities of the Society, to the number of grants made from the Research Fund, and to improvements made in the heating and lighting of the Library.

In reply to a Fellow, the President stated that the Board of Trade had now agreed to supply in full the current paper requirements for the *Journal*, and that, provided the printers were able to maintain an increased output, the delay in the publication of scientific communications should now be gradually reduced.

In proposing the adoption of the report of Council, Dr. J. D. Loudon referred to the understanding which the Officers and Council had always shown towards the problems of Local Representatives. The proposal was seconded by Dr. W. Rogie Angus, and the Report was adopted.

The following elections to vacancies on Council were announced :—

*President :*

Sir Ian Heilbron.

*Treasurer :*

Sir Wallace Akers.

*Honorary Secretary :*

Dr. Alexander King.

*Elected Ordinary Members of Council :*

*Constituency II :*

Dr. L. L. Bircumshaw.

Dr. T. Malkin.

Dr. S. Peat.

*Constituency III :*

Dr. A. E. Gillam.

*Constituency V :*

Professor F. S. Spring.

*Constituency VI :*

Professor T. S. Wheeler.

It was announced that as no valid nomination had been received to fill the vacancy for Constituency IV (North-East England), Council had nominated Professor G. R. Clemo to fill this vacancy.

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

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

Mr. R. P. Bell.  
Dr. G. M. Bennett.  
Professor A. R. Todd.

*Elected Ordinary Members of Council :*

*Constituency I :*

Dr. A. H. Cook.  
Dr. L. E. Sutton.

It was proposed by Dr. W. B. Whalley, and seconded by Professor F. E. King, that Messrs. W. B. Keen & Co. be appointed to audit the accounts for 1948. This was carried.

A vote of thanks to the President, Officers, and Council was proposed by Professor T. S. Wheeler. He referred especially to the retiring Officers and Members of Council, and paid tribute to the efficient service they had freely given for the benefit of the Society. The vote of thanks was seconded by Dr. D. O. Jordan and carried with acclamation.

In his reply, the President referred to the pleasure he had gained from his association with the administration of the Society during his period of office, and expressed the Council's warm appreciation of the work of the permanent staff of the Society.

The Anniversary Luncheon was held in Oriel College at 1.15 p.m. The toast of "The Chemical Society" was proposed by the Vice-Chancellor, Dr. W. T. S. Stallybrass. He referred to the many associations of the University of Oxford with chemistry and with the Chemical Society, and expressed his pleasure at being able to welcome the Society to Oxford. In reply, the President stated that while the Centenary Celebrations had been an unqualified success and of very great value in giving expression to the corporate existence of the Society, it was by its everyday activities that the Society would ultimately be judged.

At a well-attended afternoon meeting, the Harrison Memorial Prize for 1947 was presented to Dr. D. H. R. Barton. The President then delivered his Presidential Address entitled "Some Aspects of the Chemistry of Hydrocarbons." At the conclusion, a vote of thanks to the President for his Address, and a request that he would allow the address to be printed in the *Journal* was proposed by Sir Norman Haworth, seconded by Lady Robinson, and carried with acclamation.

The new President, Sir Ian Heilbron, was then formally installed in office. Sir Ian expressed his great pleasure at the honour the Society had bestowed on him by electing him to be its President. He referred briefly to the tasks facing the Society and in particular to the need of accommodation befitting its dignity.

Later in the afternoon, Fellows of the Society and their friends were the guests of the Vice-Chancellor at a reception in Christ Church, and in his unavoidable absence the guests were received by the Master of Pembroke, The Rev. F. H. Dudden.

**REPORT OF COUNCIL FOR 1947.****I. CENTENARY CELEBRATIONS.**

The Chemical Society celebrated in London on July 15th—17th the Centenary of its foundation. Delegates representing the learned societies of twenty-eight nations journeyed to London to present Addresses of Congratulation and to participate, together with over fourteen hundred Fellows of the Society, in these Celebrations. Learned Societies in Great Britain also paid tribute to the achievements of the Society.

The following message signed by His Majesty The King was received and read at the Opening Ceremony :

“ I sincerely thank you, the Council and Fellows of the Chemical Society, for your kind and loyal message.

As your Patron, I deeply appreciate the contribution which your Society has made and continues to make to the common good, and on the occasion of your Centenary I send my best wishes to all those who are taking part in the celebrations.

GEORGE R.I.”

The University of London conferred Honorary Degrees of Doctor of Science on the President and on three Honorary Fellows of the Society, Professors Brønsted, Karrer, and Pauling.

The Society was honoured by the presence of the Prime Minister The Rt. Hon. C. R. Attlee and Mrs. Attlee, as the principal guests at the Centenary Dinner.

*Joint Meeting with the Royal Society of Arts.* A Special Joint Meeting was held at the Royal Society of Arts on February 19th, 1947, to commemorate the formation of the Society on February 23rd, 1841. Sir Harold Hartley delivered his lecture, “ A Century of Chemistry ”, before a large audience.

*The Centenary Exhibition.* A historical exhibition organised by Sir Robert Robertson and designed to illustrate the advances made by British Chemists during the past hundred years was held at the Science Museum from July 14th to September 30th. A Section arranged by the Department of Scientific and Industrial Research illustrated the place of Chemistry in the daily life of the community.

The catalogue of this exhibition, “ Chemical Progress ”, was prepared by authorities in each branch of Chemistry. More than four thousand copies were sold.

*Programme.* The principal events in the programme were as follows :

*Monday, 14th July.*

11.00 a.m. Opening of the Centenary Exhibition.

*Tuesday, 15th July.*

9.45 a.m. Reception of delegates.  
 11.00 a.m. Opening Ceremony of the Celebrations.  
 1.00 p.m. Luncheons given by H.M. Government and by the Ladies Committee.  
 3.30 p.m. The Centenary Address by the President.  
 7.30 p.m. The Centenary Dinner.  
 8.00 p.m. Reception and dance.

*Wednesday, 16th July.*

9.00 a.m. Visits to laboratories.  
 11.00 a.m. Lectures : (i) by Professor J. Read, M.A., Sc.D., F.R.S.; (ii) by Professor E. K. Rideal, M.B.E., M.A., D.Sc., F.R.S.  
 3.00 p.m. The Faraday Lecture by Sir Robert Robinson, M.A., D.Sc., LL.D., P.R.S.  
 6.00 p.m. Graduation Ceremony and Dinner by the University of London.  
 8.30 p.m. Reception by Imperial Chemical Industries Ltd.

*Thursday, 17th July.*

- 9.00 a.m. Visits to laboratories.
- 4.00 p.m. Garden party given by H.M. Government.
- 6.00 p.m. Reception by the Royal Institution.
- 8.30 p.m. Reception by the Royal Society.

*Acknowledgments.* The Council desires to record its grateful appreciation and thanks to those who assisted in the preparations for the Celebrations, and to those bodies that provided hospitality and entertainment to Fellows of the Society and their guests.

*Centenary Expenses Fund.* The Council record their thanks to the Guarantors to the Centenary Expenses Fund whose names appear in the *Proceedings* for January, 1948.

The Centenary Expenses Fund has now been closed and the consolidated account appears in the Annual Financial Statement.

*Centenary Fund.* The Council is gratified to record the generous support received from industrial and other organisations, and from Fellows. The total contributions promised amounted to £31,454 at December 31st, 1947. The list of contributors appears in the *Proceedings* for January, 1948.

*Report of the Centenary Proceedings.* A report of the main events of the Celebrations is in preparation and will be published in 1948.

## II. FELLOWSHIP.

1. *Honorary Fellowship.* On March 6th, Professor John H. Northrop and Professor Tadeus Reichstein were elected Honorary Fellows of the Society.

2. *Fellowship Statistics.* During 1947, 929 Fellows were elected and 23 reinstated, the corresponding figures in 1946 being 732 and 29 respectively. The Society has lost 48 Fellows by death, 194 by resignation, and 130 by removal, making a total loss of 372 as against 145 in 1946. The number of Fellows on December 31st, 1947, was 7485. Of these 3249 were joint members of the three Chartered Bodies and 1184 were joint members of the Chemical Society and the Society of Chemical Industry alone. Of those who became joint members of the three bodies in 1947, 245 are new Fellows of the Chemical Society, and, of those who became joint two-body members 187 are new Fellows. The number of joint members of the three bodies has increased during the year by 163, the number of joint members of the two bodies by 133, and the number of single-body Fellows has increased by 269.

3. *Joint Student Facilities.* During 1947, 29 persons have been granted joint student facilities by the two publishing societies under the Chemical Council scheme.

4. *Honours.* The congratulations of the Society were conveyed to the following Fellows who received during the year the honours indicated :

Professor W. N. Haworth, Knight Bachelor.	Dr. E. W. Smith, Knight Bachelor.
Professor E. L. Kennaway, Knight Bachelor.	Professor T. Wallace, C.B.E.
Professor J. A. Prescott, C.B.E.	

The Council also conveyed congratulations to Sir Robert Robinson on the award of the Nobel Prize for Chemistry for 1947, and to the following Fellows who have been awarded medals by the Royal Society :

Professor C. N. Hinshelwood, Royal Medal.	Professor L. C. Pauling, Davy Medal.
Professor F. Joliot, Hughes Medal.	

5. *Special Concession to University Students who have served in H.M. Forces.* At its meeting on January 9th, the Council agreed that, from January 1st, 1947, those who have served in H.M. Forces can be Fellows paying a reduced subscription or participate in the joint junior subscription scheme until they have obtained their first University degree.

6. *Deaths.* The Council learned with profound regret of the death of two distinguished Honorary Fellows of the Society, Professor V. M. Goldschmidt, and Sir Frederick Gowland Hopkins (Vice-President 1921—1924).

By the death, on March 10th, of Dr. Alexander Scott, the Society lost one of its senior Fellows. Dr. Scott was a Fellow of the Society for sixty-eight years and was first elected a member of Council in 1897. He became Honorary Secretary in 1899, Treasurer in 1904, and President in 1915. Following his Presidency, Dr. Scott continued to serve the Society as Vice-President (1917—1928 and 1930—1933).

The Council also heard with sorrow of the death of Professor J. M. Gulland who had served the Society as Honorary Secretary (1933—1936) and as a member of Council (1941—1944).

### III. PUBLICATIONS.

1. *Journal.* During the year, 523 scientific communications were received, of which 9 were declined and 3 were withdrawn. The *Journal* which, having regard to the smaller type at present in use, was as large as, if not larger than, any previously published by the Society, comprised 396 items made up as follows :

Papers (General, Physical, and Inorganic, including 7 papers of a Discussion on Macromolecules) .....	67
„ (Organic) .....	279
Notes .....	29
Lectures and Addresses .....	9
Obituary Notices .....	8
Annual General Meeting .....	2
Reports on Atomic Weights .....	2

Scientific communications published during the year included contributions from India (4), Canada (1), Australia (9), New Zealand (7), Ceylon (1), Palestine (3), Egypt (9), and France (2).

The following figures show the growth of publication during recent years, and the increasing task facing the Society :

	1944.	1945.	1946.	1947.
Scientific communications received .....	242	347	453	523
Published .....	199	262	278	375
<i>Journal</i> , pages .....	679	930	1175	1709

2. *Annual Reports.* Owing to the fuel crisis affecting the printing trade, and other causes, the *Annual Reports* for 1946 were again regrettably late : they were, however, available to subscribers some five months earlier than the *Annual Reports* in the previous year, and it is hoped to publish the *Annual Reports* for 1947 nearer to the normal pre-war time.

3. *Quarterly Reviews.* The year marked the launching of this new enterprise. The first volume of the *Quarterly Reviews* occupied 395 pages, and contained 14 articles, varying in length from 13 to 67 pages, on selected topics from the fields of general and physical, inorganic, and organic chemistry.

4. *Centenary Volumes.* In connection with the Centenary Celebrations of the Society two volumes were published : “ The Chemical Society, 1841—1941 ”, a historical review, by T. S. Moore and J. C. Philip, and “ British Chemists ”, edited by A. Findlay and W. H. Mills. The cost of these volumes was generously defrayed by Messrs. Richard Clay and Company, Ltd., as a contribution to the Centenary Fund.

### IV. MEETINGS.

1. *Scientific Meetings.* The Society has held 19 Meetings in London during 1947. These included 10 lectures and 2 organised discussions. At the other 7 meetings 18 papers were read and discussed.

The number of meetings held outside London increased from 65 to 77. These included 69 lectures, 6 meetings for reading papers, 1 discussion, 1 scientific film display, and 1 demonstration of scientific apparatus. Of these meetings 56 were held jointly with local sections of other bodies or with University Chemical Societies.

An Official Scientific Meeting of the Society was held at Bristol on February 13th, 1947. A complete list of meetings is given in Appendix B.

2. *Anniversary Meeting.* A report of the Anniversary Meeting held in London on March 20th appeared in the *Journal* for May.

The Meeting consisted of the 106th Annual General Meeting and Presidential Address; the Anniversary Luncheon was held at the Dorchester Hotel, and in the evening a party of Fellows and their friends attended a performance of Ben Jonson's "The Alchemist".

The Annual General Meeting was adjourned until June 5th when the accounts for 1946 were presented and auditors appointed; these accounts were published in the *Journal* for June, 1947.

## V. LIBRARY.

The Annual Report of the Joint Library Committee for 1947 appears as Appendix A.

## VI. OTHER ACTIVITIES.

1. *Grants for Research.* During the year the Council authorised the payment of research grants amounting to £385 to 17 applicants.

2. *International Union of Chemistry.* The Council entertained the Council and Bureau of the International Union of Chemistry to Luncheon on July 23rd, 1947.

3. *International Exhibition, 1951.* Professor W. Wardlaw represented the Society at a preliminary conference, called by the Royal Society of Arts, to consider the proposal for an International Exhibition in 1951.

## VII. ADMINISTRATION.

1. *Personnel of Council.* At the Annual General Meeting on March 20th, the following elections were made :

Vice-President .....	Dr. J. Kenyon.
Ordinary Members of Council .....	Dr. G. M. Dyson, Dr. F. R. Goss, Dr. F. M. Hamer, Dr. F. E. King, Dr. H. N. Rydon.

2. *Local Representatives.* In February the Council appointed Professor Brynmor Jones to be the Society's first Local Representative in the Hull area.

The resignation of Dr. A. E. Gillam as Local Representative in Manchester was accepted with regret. The Council appointed Dr. G. Baddeley to fill the vacancy.

3. *General Secretary.* Mr. J. R. Ruck Keene was appointed General Secretary on November 1st, 1947, in succession to Mr. L. R. Batten who resigned from the position in order to take up a business appointment.

## VIII. FINANCE.

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

£330 standing to the credit of Life Composition Fees in General Purposes Account, invested in 2½% Treasury Stock, 1975 or after.

£750 standing to the credit of Life Composition Fees in General Purposes Account, invested in 2½% Savings Bonds 1964—1967.

£3825 1s. 6d. 3% Local Loans on General Purposes Account converted into 2½% Treasury Stock 1975, or after.

- £4741 4s. 10d. 3% Local Loans on Research Fund Account converted into 2½% Treasury Stock 1975, or after.
- £3344 3s. 4d. 3% Local Loans on Publications Fund Account converted into 2½% Treasury Stock, 1975, or after.
- £1520 14s. 3d. Cardiff Corporation 3% Redeemable Stock 1914—1954 on General Purposes Account converted into 2½% Cardiff Corporation Redeemable Stock 1966—1971.
- £5000 on Centenary Fund Account invested in 2½% Savings Bonds 1964—1967.
- £4000 on Centenary Fund Account invested in 3% Savings Bonds 1955—1965.
- £898 19s. 6d. on the Society's Australian Account (General Purposes Account) invested in 4% Commonwealth of Australia Treasury Bonds 1961.
- £391 17s. 4d. 3% Local Loans on Staff Pensions Fund was redeemed and not re-invested.

Authority was given for the redemption of £800 3% Defence Bonds on Special Reserve Fund.

2. *Emile Mond Bequest.* The Emile Mond Bequest of £100 has been transferred from the Special Reserve Fund to the Centenary Fund.

3. *Increased Prices of Publications.* Rising costs of printing, paper, and the generally increased cost of all administrative services have made it necessary to revise the arrangements for the supply of publications under the Basic Subscription.

As from January 1st, 1948, Fellows paying a subscription of £3 10s. will receive publications to the value of £3 without further charge, and may make additional purchases over and above this amount at the reduced rate to Fellows. Fellows paying a reduced subscription of £1 15s. will receive publications to the value of £1 10s. without further charge, and may make additional purchases at the reduced rate up to a further £1 15s.

The Council feel that the adoption of this new method of choice for separate Fellows is the most equitable arrangement since the extra amount which they will be called upon to pay will be in proportion to the number of publications they desire to receive.

The new prices of publications also apply to Fellows paying Joint Subscriptions.

4. *Insurances.* Fire insurances on the Library, and on stocks of publications and paper, have been increased by appropriate amounts.

5. *Contributions.* The Council records with thanks the following contributions towards the cost of publications :

- £750 on account of 1946, and £1000 on account of 1947, from the Chemical Council.
- £900 from the Government Grant distributed by the Royal Society.

The Anglo-Iranian Oil Co., Ltd., has entered into a Deed of Covenant to pay the Society a sum of £50 per annum for seven years to be used for the current general purposes of the Society.

6. *Library.* Contributions have been received through the Chemical Council towards the maintenance of the Library for 1946, from :

	£	s.	d.
The Royal Institute of Chemistry .....	962	17	7
The Society of Chemical Industry .....	516	16	0
The Faraday Society .....	108	16	0
The Society of Public Analysts and Other Analytical Chemists .....	87	0	10
The Chemical Council .....	900	8	6

Contributions have been received from other sources as follows :

	£	s.	d.
The Association of British Chemical Manufacturers .....	100	0	0
The Biochemical Society .....	21	0	0
The British Association of Chemists .....	50	0	0
The Institute of Brewing .....	50	0	0
The Society of Dyers & Colourists .....	10	10	0
Genatosan, Ltd. (under Deed of Covenant).....	25	0	0

7. *Special Reserve Fund.* £300 has been transferred to the Special Reserve Fund towards expenses of the Quinquennial Index of *British Abstracts*.

## IX. RELATIONS WITH OTHER BODIES.

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

During 1947 the Society was represented as follows :

#### *Anglo-Soviet Scientific Collaboration Sub-Committee :*

Sir John Russell.

#### *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 :*

Professor F. G. Donnan.

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

Sir Norman Haworth, Sir Ian Heilbron, Dr. W. H. Mills.

#### *British National Committee for Crystallography :*

Dr. G. M. Bennett.

#### *British Standards Institution. Technical Committees :*

Co-ordinating the work of the Divisional Councils in regard to any British Standard which may be issued in future for units, conversion factors, fundamental formulæ, values for properties of materials, etc. : Professor S. Sugden.

Standardisation of microchemical apparatus : Professor H. V. A. Briscoe, Dr. H. D. K. Drew.

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

Standardisation of Scientific Glassware : Dr. G. R. Davies.

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

Standardisation of Letter Symbols : Professor S. Sugden.

Technical Committee C/17 Viscosity : Dr. A. E. Dunstan.

#### *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 :*

Dr. R. P. Linstead, Professor C. N. Hinshelwood, Professor W. Wardlaw, Mr. F. P. Dunn.

#### *Chemical Council—Advisory Committee on the Dyson System of Ciphering Chemical Compounds :*

Professor Wilson Baker, Dr. E. H. Rodd, Professor A. R. Todd.

#### *City and Guilds of London Institute :*

Professor H. V. A. Briscoe.



*Faraday Society—Colloid Committee :*

Dr. G. S. Hartley.

*International Union of Chemistry :*

Committee for the Reform of the Nomenclature of Organic Chemistry : Professor C. S. Gibson.

*Joint Library Committee :*

Professor H. Bassett, Dr. O. L. Brady, Dr. C. H. Desch, Mr. M. B. Donald, Mr. F. P. Dunn, Professor H. J. Emeléus, Dr. P. Haas, Dr. T. A. Henry, Dr. J. I. R. Hepburn, Professor D. H. Hey, Dr. Harold King, Professor G. A. R. Kon, Professor E. E. Turner, Professor W. Wardlaw.

*Lawes Agricultural Trust :*

Committee of Management : Sir Norman Haworth.

*Parliamentary and Scientific Committee :*

Professor C. N. Hinshelwood, Professor D. H. Hey.

*Royal Society.*

Joint Standing Committee for Symbols and Abbreviations : Professor C. W. Davies, Professor S. Sugden.

*Safeguarding of Industries Committee :*

Professor C. S. Gibson.

*Yorkshire Council for Further Education :*

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

## APPENDIX A.

### ANNUAL REPORT OF THE JOINT LIBRARY COMMITTEE FOR 1947.

Figures for all departments of the work of the Library during the year again show an increase. This is most marked in the case of photostat copying, 5040 printed pages having been copied, as against 4174 in the previous year. Attendances by readers rose by 340 and books borrowed by 130. Telephone enquiries dealt with amounted to 1711, an increase of 151 on last year.

The number of books added to the Library totalled 442, of which 157 were presented. 617 volumes of periodicals and 143 pamphlets were added. The number of volumes in the Library is now 48,922, of which 14,772 are books and 34,150 volumes of periodicals.

#### *Analysis.*

	Attendances.	Books borrowed.	Books added.	Volumes of periodicals.	Pamphlets.
1947 .....	11,710	9678 (3427 by post)	442	617	143
1946 .....	11,370	9548 (3396 by post)	254	593	181

An interesting commentary on the way in which the use of the Library has increased is provided by the figures for the year 1920, the first full year in which the scheme of co-operation operated. In that year the attendances numbered 4716 and the books borrowed 3079, which is fewer than the number now borrowed by post alone. The large increase in the number of books added is accounted for by the inclusion of books purchased in Germany.

The heating of the Library has been considerably improved by the replacement of the open fireplaces by slow combustion stoves.

Several experts have visited the Library to see the fluorescent lighting. They describe the casing as a very fine example of "Perspex" work. Photographs of the Library, illuminated by this lighting, have been taken for use at an international lighting conference.

Many visitors to the Centenary Celebrations and the International Congress took the opportunity of visiting the Library, and an exhibition of some of the Society's early historical books aroused much interest.

Gifts in connection with the Centenary were five early historical books presented by the Iron and Steel Institute, and a palladium-hydrogenium medal struck by Thomas Graham when he was Master of the Mint, presented by Mr. T. H. Russell. A noteworthy bequest was a set of the complete works of Robert Boyle in six volumes, from the late Dr. Alexander Scott, F.R.S. The Committee desires to express its thanks to all those who presented books to the Library.

The pressing need for a reading room worthy of the Society's unique collection of chemical literature becomes ever more obvious. Every fresh attempt to provide more seating to meet the increased demand leads to a further dispersal of books, and this in turn makes it increasingly difficult to meet the requirements of readers with that promptitude which they have learned to expect.

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## APPENDIX B.

### MEETINGS HELD DURING 1947.

#### IN LONDON.

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

January 9th, *Meeting* for reading papers; February 6th, *Tilden Lecture*, "The Application of Surface Chemistry to Colloidal Problems", by Dr. A. E. Alexander; February 19th, Special Commemorative Meeting with the Royal Society of Arts, *Lecture*, "A Century of Chemistry", by Sir Harold Hartley; February 20th, *Meeting* for reading papers; March 6th, *Meeting* for reading papers; April 17th, *Discussion* on "Electrolytic Solutions", arranged by Professor C. W. Davies; May 1st, *Meeting* for reading papers. June 5th, *Meeting* for reading papers; July 15th, at the Central Hall, Westminster, "The Centenary Address", by Professor C. N. Hinshelwood; July 16th, at the Institution of Civil Engineers, *Lecture*, "Chemical Personalities a Century Ago", by Professor J. Read; July 16th, at the Royal Institution, *Lecture*, "The Work of the Royal Institution in Physical Chemistry in Great Britain", by Professor E. K. Rideal; July 16th, at the Central Hall, Westminster, *Eighteenth Faraday Lecture*, "The Development of Electrochemical Theories of the Course of Reactions of Carbon Compounds", by Sir Robert Robinson; October 2nd, *Ernst Julius Cohen Memorial Lecture*, by Professor F. G. Donnan; October 23rd, *Tilden Lecture*, "Crystallographic Technique and its Chemical Significance", by Professor E. G. Cox; November 6th, *Meeting* for reading papers; November 20th, *Meeting* for reading papers; December 4th, *Pedler Lecture*, "Recent Developments in the Vitamin-A Field", by Sir Ian Heilbron; December 17th, at the Royal Institution, *Lecture*, "Chemical Personalities a Century Ago", by Professor J. Read; December 18th, *Discussion* on "Infra-red Spectra and Molecular Structure", introduced by Dr. H. W. Thompson.

#### OUTSIDE LONDON.

*Aberdeen.* At Marischal College. January 24th, *Lecture*, "Recent Advances in our Knowledge of the Metabolism of Proteins and Amino-acids", by Dr. D. P. Cuthbertson;

February 28th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Grinding and Size Reduction: Some Problems met in the Fertiliser Industry", by Mr. R. H. Calvert; March 11th, *Lecture*, "The Composition and Structure of Proteins", by Professor A. C. Chibnall; March 20th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Recent Developments in the Chemistry of Starch and Glycogen", by Professor E. L. Hirst; October 24th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "New Methods in Applied Organic Analysis", by Mr. R. Belcher; November 14th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Recent Developments in Synthetic Fibres", by Dr. D. Traill; December 12th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), *Lecture*, "Bond-length Variations in Aromatic Systems", by Professor J. M. Robertson.

*Birmingham.* At the University: February 21st (joint meeting with the University Chemical Society), *Lecture*, "Surface Chemistry and Colloids", by Dr. A. E. Alexander; May 5th, *Lecture*, "Careers in Chemistry", by Mr. M. C. Paine; December 8th (joint meeting with the University Chemical Society), *Lecture*, "Mechanisms of Oxidation", by Dr. W. A. Waters.

*Bristol.* At the University: February 13th, Official Meeting of the Society, *Discussion* on "Protein Chemistry", opened by Professor J. D. Bernal; November 6th (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, and the University Chemical Society), *Lecture*, "The Oxidation of Phenols", by Professor R. D. Haworth.

*Cambridge.* At the University: January 17th, *Tilden Lecture*, "Macromolecules Synthesised by Micro-organisms", by Professor M. Stacey; November 7th (joint meeting with Cambridge University Chemical Society), *Lecture*, "A Problem in Chemical Kinetics", by Professor C. N. Hinshelwood.

*Edinburgh.* 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 20th, *Lecture*, "Fluorescence", by Dr. N. Campbell; March 13th, *Lecture*, "The Composition and Structure of Proteins", by Professor A. C. Chibnall; October 16th, *Lecture*, "Modern Ideas of Valency", by Professor W. Wardlaw; November 13th, *Lecture*, "Diffusion in Biological Processes", by Dr. P. Eggleton; December 11th, *Lecture*, "Medico-legal Experiences", by Dr. G. Roche Lynch.

*Eire.* At Trinity College, Dublin: October 31st (joint meeting with the Werner Society), *Lecture*, "The Oxidation of Phenols", by Professor R. D. Haworth.

*Exeter.* At Washington Singer Laboratories: February 21st, *Lecture*, "Some Reactions of Free Radicals", by Dr. W. A. Waters; May 16th (joint meeting with the British Rheologists' Club), *Lectures*, "Clay", by Dr. G. Nagelschmidt, and "Rheology of Clay", by Mr. H. H. Macey; December 5th, *Lecture*, "Physico-chemical Problems of Insect Control", by Dr. A. B. P. Page.

*Glasgow.* February 21st, at the Royal Technical College, Annual General Meeting of the Local Section followed by the reading of papers; March 14th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at the University, *Lecture*, "The Composition and Structure of Proteins", by Professor A. C. Chibnall; October 24th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at the Royal Technical College, *Lecture*, "Some Aspects of the Chemistry of Fluorine", by Dr. B. C. Saunders; October 31st (joint meeting with the Alchemists' Club and the Andersonian Chemical Society), at the University, *Lecture*, "From the Highest to the Lowest", by Professor H. Nicol; November 21st (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at the Royal Technical College, *Lecture*, "Electron-transfer Reactions", by Professor M. G. Evans.

*Hull.* At University College: June 6th (joint meeting with the University College

Scientific Society), *Inaugural Lecture*, "Some Aspects of the Chemistry of Penicillin", by Sir Ian Heilbron; October 23rd (joint meeting with the local section of the Royal Institute of Chemistry and the University College Scientific Society), *Lecture*, "Addition Polymerisation", by Professor D. H. Hey; November 20th (joint meeting with the University College Scientific Society), *Lecture*, "The Structure of Proteins from the Viewpoint of the Chemist", by Professor A. C. Chibnall.

*Leeds.* February 25th (joint meeting with the University Chemical Society), at the University, *Lecture*, "The Chemistry of Penicillin", by Professor W. Baker, preceded by a display of scientific films.

*Liverpool.* At the University: January 23rd (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, the British Association of Chemists, and the University Chemical Society), *Lecture*, "Metabolic Cycles", by Professor H. A. Krebs; February 20th (joint meeting with the Royal Institute of Chemistry, the Society of Chemical Industry, the British Association of Chemists, and the University Chemical Society), *Lecture*, "Recent Developments in the Chemistry of Starch and Glycogen", by Professor E. L. Hirst; February 27th (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, and the British Association of Chemists), *Lecture*, "The Complete Analyst", by Mr. R. C. Chirnside; March 12th (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, and the British Association of Chemists), Demonstration of scientific apparatus; November 20th (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, the British Association of Chemists, and the University Chemical Society), *Lecture*, "The Chemistry of Ethylenic Polymers", by Professor H. W. Melville; November 27th (joint meeting with the local sections of the Royal Institute of Chemistry, the Society of Chemical Industry, and the British Association of Chemists), *Lecture*, "Penicillin", by Mr. G. A. Glister.

*Manchester.* January 9th (joint meeting with the local section of the Royal Institute of Chemistry), at the University, *Lecture*, "On Molecular Interaction at Oil-Water Interfaces", by Dr. J. H. Schulman; February 13th (joint meeting with the local section of the Royal Institute of Chemistry and the University Chemical Society), at the University, *Lecture*, "Some Aspects of the Chemistry of Fluorocarbons", by Professor M. Stacey; March 13th, at the University, *Meeting* for reading papers; April 17th (joint meeting with the local section of the Royal Institute of Chemistry), at the Engineers' Club, *Lecture*, "Recent Work in Colour Photography", by Mr. A. H. Baines; May 16th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at the Engineers' Club, *Lecture*, "A New Notation for Organic Chemistry", by Dr. G. M. Dyson; October 9th, at the University, *Lecture*, "Inorganic Catalytic Halides", by Dr. F. Fairbrother; November 13th, at the University, *Meeting* for reading papers; December 5th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at the University, *Lecture*, "Industrial Uses of Atomic Energy", by Sir Wallace Akers.

*Newcastle and Durham.* At King's College, Newcastle-on-Tyne: May 1st, *Meeting* for reading papers; May 9th, *Bedson Club Lecture*, "The Chemistry of Some Plant Gums and Mucilages", by Professor E. L. Hirst; October 17th, *Bedson Club Lecture*, "Some Aspects of Solid Reactions", by Professor W. E. Garner; November 14th, *Bedson Club Lecture*, "Pages from the Chemistry of Aluminium", by Professor H. Bassett; November 21st, *Meeting* for reading papers.

*Northern Ireland.* February 4th (joint meeting with the local section of the Royal Institute of Chemistry), at Queen's University, Belfast, *Lecture*, "Methods and Apparatus in Inorganic Microchemistry", by Mr. R. Belcher and Dr. C. L. Wilson.

*North Wales.* October 9th (joint meeting with the University College of North Wales Chemical Society), at University College of North Wales, Bangor, *Lecture*, "DDT and Gammexane in the Control of Insect-borne Diseases", by Sir Ian Heilbron.

*Nottingham.* At University College, January 23rd (joint meeting with the University College Chemical Society), *Lecture*, "Recent Advances in the Chemistry of the Enzymes",

by Dr. J. A. V. Butler; February 20th, *Lecture*, "Crystal Analysis and Stereochemistry", by Professor E. G. Cox; At University College, Leicester, February 26th, *Lecture*, "The Chemistry of Penicillin", by Professor W. Baker; At University College, Nottingham, March 18th, *Tilden Lecture*, "The Application of Surface Chemistry to Colloidal Problems", by Dr. A. E. Alexander; November 6th, *Lecture*, "Some Contributions of the Organic Chemist to Biological Science", by Professor F. S. Spring; December 4th, *Meeting* for reading papers.

*St. Andrews and Dundee.* January 31st, at University College, Dundee, *Lecture*, "Modern Trends in the Chemical Utilisation of Wood", by Dr. W. G. Campbell; November 14th, at University College, St. Andrews, *Lecture*, "The Chemistry of Penicillin", by Professor W. Baker.

*Sheffield.* At the University, February 27th (joint meeting with the University Chemical Society), *Lecture*, "Homolytic Reactions", by Professor D. H. Hey; May 1st (joint meeting with the University Chemical Society), *Lecture*, "Bond Lengths in Aromatic Hydrocarbons", by Professor J. M. Robertson; May 8th (joint meeting with the University Chemical Society), *Lecture*, "The Study of Antibiotics", by Sir Howard W. Florey; May 15th (joint meeting with the University Chemical Society), *Lecture*, "Some Relationships between the Structure and Properties of Natural and Synthetic Fibres", by Professor J. B. Speakman; November 13th (joint meeting with the University Chemical Society), *Lecture*, "The Hydrogen Bond in Organic Chemistry", by Professor L. Hunter; November 27th (joint meeting with the local section of the Royal Institute of Chemistry and the University Chemical Society), *Lecture*, "The Function of Sulphuric Acid in Aromatic Nitration", by Dr. G. M. Bennett; December 4th (joint meeting with the University Chemical Society), *Lecture*, "The Bearing of the Isotopes of Carbon, Hydrogen, Oxygen, and Nitrogen on Organic Chemistry", by Professor G. R. Clemo.

*Southampton.* February 28th (joint meeting with the University College of Southampton Chemical Society), at University College, *Lecture*, "The Chemistry of Vitamin-A", by Sir Ian Heilbron; June 6th (joint meeting with the Portsmouth and District Chemical Society and the University College of Southampton Chemical Society), at Portsmouth Municipal College, *Lecture*, "Electron Diffraction", by Professor G. I. Finch; October 10th (joint meeting with the University College of Southampton Chemical Society), at University College, *Lecture*, "The Influence of Substituents on the Polarity of the Benzene Ring", by Professor C. C. Price; October 24th (joint meeting with the University College of Southampton Chemical and Physical Societies), at University College, *Lecture*, "Isotopes and Molecular Spectra", by Professor C. K. Ingold; November 14th (joint meeting with the University College of Southampton Chemical Society), at University College, *Lecture*, "The Corrosion of Metals", by Dr. U. R. Evans.

*South Wales.* January 31st (joint meeting with the University College of Swansea Chemical Society), at University College, Swansea, *Lecture*, "The Absorption of Light", by Mr. E. J. Bowen; February 7th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at University College, Cardiff, *Lecture*, "Structural Inorganic Chemistry", by Professor W. Wardlaw; March 19th (joint meeting with the local sections of the Royal Institute of Chemistry and the Society of Chemical Industry), at Technical College, Newport, *Lecture*, "Gammexane: Some Properties of this New Insecticide", by Dr. L. J. Burrage; November 21st, at University College, Cardiff, *Lecture*, "Nitration in Sulphuric Acid", by Professor G. Williams.

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