

# British Pharmaceutical Conference

NINETY-THIRD ANNUAL MEETING, DUBLIN, 1956

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## REPORT OF PROCEEDINGS

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### OFFICERS:

#### *President:*

GRANVILLE SHAW, F.P.S.

#### *Chairman:*

K. BULLOCK, M.Sc., Ph.D., F.P.S., F.R.I.C., Manchester.

#### *Vice-Chairmen:*

R. R. BENNETT, B.Sc., F.P.S., F.R.I.C., Eastbourne.  
HAROLD DEANE, B.Sc., F.P.S., F.R.I.C., Sudbury.  
H. HUMPHREYS JONES, F.P.S., F.R.I.C., Liverpool.  
T. E. WALLIS, D.Sc., F.P.S., F.R.I.C., F.L.S., London.  
H. BRINDLE, M.Sc., F.P.S., F.R.I.C., Manchester.  
B. A. BULL, F.P.S., A.R.I.C., Nottingham.  
NORMAN EVERS, Ph.D., F.R.I.C., Ware.  
A. D. POWELL, M.P.S., F.R.I.C., Nottingham.  
H. BERRY, B.Sc., Dip.Bact. (London), F.P.S., F.R.I.C., London.  
H. B. MACKIE, B.Pharm., F.P.S., Brighton.  
G. R. BOYES, L.M.S.S.A., B.Sc., F.P.S., F.R.I.C., London.  
H. DAVIS, C.B.E., B.Sc., Ph.D., F.P.S., F.R.I.C., London.  
J. P. TODD, Ph.D., F.P.S., F.R.I.C., Glasgow.

#### *Honorary Treasurer:*

H. TREVES BROWN, B.Sc., F.P.S., London.

#### *Honorary General Secretaries:*

H. G. ROLFE, B.Sc., F.P.S., F.R.I.C., London.  
E. F. HERSANT, B.Pharm., Ph.D., F.P.S., F.R.I.C., London.

#### *Other Members of the Executive Committee:*

The CHAIRMAN of the Executive of the Scottish Department of the Pharmaceutical Society of Great Britain (*ex officio*).  
The PRESIDENT of the Pharmaceutical Society of Ireland (*ex officio*).  
The PRESIDENT of the Pharmaceutical Society of Northern Ireland (*ex officio*).  
The CHAIRMAN and Honorary Secretary of the Local Committee (*ex officio*).

J. W. FAIRBAIRN, B.Sc., Ph.D., F.P.S.,  
A.R.I.C., F.L.S., London.  
G. E. FOSTER, B.Sc., Ph.D., F.R.I.C.,  
Dartford.  
D. C. GARRATT, B.Sc., Ph.D.,  
F.R.I.C., Nottingham.  
\*D. W. HUDSON, M.P.S., Hove.

\*G. H. HUGHES, M.P.S., Colwyn Bay.  
W. MITCHELL, B.Sc., Ph.D., F.R.I.C.,  
London.  
J. M. ROWSON, M.Sc., Ph.D., F.P.S.,  
F.L.S., London.  
\*H. STEINMAN, M.P.S., Manchester.  
T. D. WHITTET, B.Sc., F.P.S., F.R.I.C.,  
London.

\*Members nominated by the Council of the Pharmaceutical Society of Great Britain.

# PROCEEDINGS OF CONFERENCE

DUBLIN, 1956

## THE OPENING SESSION

The opening session of the Conference was held in the Ambassador Theatre, Dublin, on Monday, September 3, with Mr. Granville Shaw, President of the Conference (President of the Pharmaceutical Society) in the Chair. On the platform were the Chairman of the Conference (Prof. K. Bullock), the Lord Mayor of Dublin (Councillor R. T. Briscoe), the Chairman and Secretary of the Local Conference Committee (Mr. P. F. McGrath, President of the Pharmaceutical Society of Ireland, and Mr. D. J. Kennelly), the Honorary General Secretaries (Mr. H. G. Rolfe and Dr. E. F. Hersant), the Honorary Treasurer (Mr. H. Treves Brown), together with members of the Conference Executive Committee.

The President introduced the Lord Mayor, who welcomed the Conference to Dublin. The President thanked the Lord Mayor on behalf of the Conference for his welcome.

The President then handed over the further conduct of the Conference to the Chairman (Prof. K. Bullock), who delivered his address entitled "Biochemical Principles in Pharmacy," which is printed in full in the *Journal of Pharmacy and Pharmacology*, 1956, 8, pages 689 to 708.

On the proposition of Dr. J. B. Stenlake, seconded by Mr. J. B. Lloyd, the Conference accorded a hearty vote of thanks to the Chairman for his address.

## STATE RECEPTION

On the evening of Monday, September 3, a State Reception was held at the Gresham Hotel. The guests were received by the Minister for Local Government, Mr. P. O'Donnell and his sister-in-law, Mrs. R. J. Kelly and by the President of the Pharmaceutical Society of Ireland, Mr. P. McGrath and his daughter, Mrs. T. Butler. A dance was held at Clery's Ballroom after the reception.

## THE SCIENCE SESSIONS

Meetings were held on Monday, Tuesday, Wednesday and Friday, September 3, 4, 5 and 7, at University College, the Chairman presiding. During the sessions the following 32 papers were communicated:—

1. Resistance of Crystalline Substances to Gas Sterilisation. By C. F. Abbott, B.Pharm., B.Sc., F.P.S., A.R.I.C., J. Cockton and W. Jones, F.P.S.
2. The Reproducibility of Extinction Time Estimates. Part III. Studies of Suspensions of Test Organisms. By A. M. Cook, B.Pharm., Ph.D., Dip.Bact., F.R.I.C., F.P.S., K. J. Steel, B.Pharm., F.P.S. and B. A. Wills, B.Pharm., Ph.D., M.P.S.
3. An Examination of Rubber Used as a Closure for Containers of Injectable Solutions. Part II. The Absorption of Chlorocresol. Part III. The Effect of the Chemical Composition of the Rubber Mix on Phenol and Chlorocresol Absorption. By W. T. Wing, F.P.S., D.B.A.
4. An Investigation into the Compaction of Powders. By D. Train, M.C., B.Pharm., B.Sc.(Eng.), Ph.D., A.C.G.I., D.I.C., F.P.S., A.R.I.C.
5. The Rheology of Oil-in-Water Emulsions I. The Effect of Concentration of Constituents on Emulsion Consistency. By A. Axon, M.S. (Wisconsin), B.Pharm., F.P.S.
6. Non-ionic Surface-active Agents. Part I. The Solubility of Chloroxylenol in Aqueous Solutions of Polyethylene Glycol 1000 Monocetyl Ether. By B. A. Mulley, B.Pharm., Ph.D., A.R.I.C. and A. D. Metcalf, B.Sc. (Pharm.).
7. The Chemical Assay of Cascara. By A. A. J. Fluck, B.Sc., W. Mitchell, B.Sc., Ph.D., F.R.I.C. and S. A. Wood, B.Sc.
8. A Source of Error in the Assay of Strychnine Salts and preparations Containing Strychnine. By A. C. Caws, B.Sc., A.R.I.C. and G. E. Foster, B.Sc., Ph.D., F.R.I.C.
9. Structural Requirements for Analgesic Activity in Alkylalkoxy-1-phenylethylamines and Some Views on Analgesic Mechanisms. By A. McCoubrey, B.Sc., Ph.D., M.P.S., F.R.I.C.
10. Analgesics and Their Antagonists: Some Steric and Chemical Considerations. Part I. The Dissociation Constants of Some Tertiary Amines and Synthetic Analgesics, and Their Implication in Considerations of the Conformations of Methadone-type Compounds. By A. H. Beckett, B.Sc., Ph.D., F.P.S., F.R.I.C.: Part II. The Influence of the Basic Group upon the Physico-chemical Properties and the Activity of Methadone and Thiambutene-type Compounds. By A. H. Beckett, B.Sc., Ph.D., F.P.S., F.R.I.C., A. F. Casey, B.Sc., F.P.S., A.R.I.C., N. J. Harper, M.Sc., Ph.D., Ph.C. (N.I.), A.R.I.C. and P. M. Phillips, B.Pharm. Part III. The Influence of the Basic Group on the Biological Response. By A. H. Beckett, B.Sc., Ph.D., F.P.S., F.R.I.C., A. F. Casey, B.Sc., F.P.S., A.R.I.C. and N. J. Harper, M.Sc., Ph.D., Ph.C. (N.I.), A.R.I.C.
11. The Determination of Riboflavin in Pharmaceutical Products. By L. Brealey, B.Sc. and D. A. Elvidge, B.Sc.
12. The Stability of B Vitamins in Pharmaceutical Products. By F. Wokes, B.Sc., Ph.D., F.P.S., F.R.I.C. and F. W. Norris, D.Sc., Ph.D., F.R.I.C., A.R.C.S., D.I.C.
13. The Determination of Benactyzine. By J. P. Jefferies, B.Sc., A.R.I.C. and J. I. Phillips, F.R.I.C.

14. *Glinus oppositifolius* L. Root—A Substitute for Senega. By R. M. Ridgway, B.Pharm., F.P.S. and J. M. Rowson, M.Sc., Ph.D., F.P.S., F.L.S.
  15. The Evaluation of Belladonna Herb. Part I. The Quantitative Determination of Seed in Powdered Herb. By R. G. Atkinson, F.P.S., F.N.A.O., F.L.S. and C. Melville, B.Pharm., Ph.D., F.P.S.
  16. The Pharmacognosy of *Aspidosperma* Barks of British Guiana. Part IV. Quantitative Numerical Studies of the Lignified Elements in Cascara and in *Aspidosperma* Species. By J. D. Kulkarni, B.Sc., Ph.D., B.Pharm., J. M. Rowson, M.Sc., Ph.D., F.P.S., F.L.S. and G. E. Trease, B.Pharm., F.P.S., F.R.I.C., F.L.S.
  17. The Application of Enzyme Inhibition to the Estimation of Small Quantities of Drugs Possessing Anticholinesterase Activity. The Assay of Injection of Neostigmine Methylsulphate. By J. Buckles, B.Sc., F.P.S. and K. Bullock, M.Sc., Ph.D., F.P.S.
  18. High Frequency Titrations in Pharmaceutical Analysis. By J. Allen, A.R.I.C., E. T. Geddes, and R. E. Stuckey, B.Sc., Ph.D., F.P.S., F.R.I.C.
  19. A Method of Determining Binary Mixtures by Distribution Measurements, and its Application to the Assay of Strychnine in the Presence of Quinine. By C. Morton, B.Sc., F.P.S. and E. H. Tinley, B.Sc., F.P.S.
  20. Sustained Release of Drugs from Ion Exchange Resins. By N. C. Chaudhry, B.Pharm. and L. Saunders, B.Sc., Ph.D., F.R.I.C.
  21. The Sterilisation, Stability and Toxicity of Congo Red Injections. By G. F. Somers, B.Sc., Ph.D., F.P.S. and T. D. Whittet, B.Sc., F.P.S., F.R.I.C., D.B.A.
  22. Percutaneous Absorption using Diiodofluorescein<sup>125</sup>I. By J. W. Hadgraft, F.P.S., F.R.I.C., G. F. Somers, B.Sc., Ph.D., F.P.S. and H. S. Williams, B.Sc.
  23. The Action of Ion Exchange Resins on Pyrogens. Part I. Effect on Pyrogenicity of Tap Water. By T. D. Whittet, B.Sc., F.P.S., F.R.I.C., D.B.A.
  24. Paper Chromatographic Detection of New Constituents of *Digitalis lanata*. By Barbara J. Aldrich, M.P.S. (N.S.W.), Margaret L. Frith, M.P.S. (N.S.W.) and S. E. Wright, M.Sc., Ph.D., Dip.Pharm., A.R.I.C.
  25. Studies in the Genus *Digitalis*. Part V. Fermentative Degradation of *D. purpurea* Leaf. By J. M. Rowson, M.Sc., Ph.D., F.P.S., F.L.S. and S. Simic.
  26. Determination of the Digitoxin Content of *Digitalis purpurea*. By E. H. B. Sellwood, B.Pharm., F.P.S., A.R.I.C.
  27. The Reactions of Antibacterial Substances with Bacteria. Methods using Nitrofurazone and *Aerobacter aerogenes*. By A. H. Beckett, B.Sc., Ph.D., F.P.S., F.R.I.C. and Ann E. Robinson, B.Pharm.
  28. Antituberculosis Activity in the Phenazine Series. Isomeric Pigments obtained by Oxidation of *o*-Phenylenediamine Derivatives. By V. C. Barry, D.Sc., M. L. Conalty, M.D., D.P.H. and Ethna E. Gaffney, M.Sc., Ph.D.
  29. The Chemistry of Santonin. Part II. Preparation of Some Derivatives with Possible Anthelmintic Activity. By W. Cocker, M.Sc., Ph.D., M.A., Sc.D. (Dublin), F.R.I.C., M.R.I.A. and T. B. H. McMurry, B.A.
  30. Some Statistical Aspects of the Analytical Control and Standardisation of Tablets. By A. R. Rogers, B.Sc., B.Pharm, F.P.S., A.R.I.C.
  31. Studies on *Leontice leontopetalum* Linn. Part I. Introduction. The Isolation of the Chemical Constituents of *Leontice leontopetalum* and Some Preliminary Observations on the Pharmacological Action of Leonticine and Petaline Chloride. By J. McShefferty, B.Sc., A.R.I.C., F.P.S., P. F. Nelson, B.Sc., M.P.S., J. L. Paterson, B.Sc., J. B. Stenlake, B.Sc., Ph.D., F.P.S., A.R.I.C. and J. P. Todd, Ph.D., F.P.S., F.R.I.C.
  32. Studies on *Leontice leontopetalum* Linn. Part II. History, Sources and Macroscopical Characters of the Plant *L. leontopetalum*. By P. F. Nelson, B.Sc., M.P.S. and F. Fish, B.Pharm, Ph.D., F.P.S.
- The papers are printed in full with reports of discussions in the *Journal of Pharmacy and Pharmacology*, 1956, 8, pages 709 to 804, 848 to 986 and 1019 to 1142.

### THE SYMPOSIUM SESSION

A symposium on "Water" was held on Thursday, September 6. The CHAIRMAN presided. Two introductory papers were presented by Drs. E. W. Taylor and N. P. Burman, and E. Shotton and L. Saunders. The meeting is reported in the *Journal of Pharmacy and Pharmacology*, 1956, 8, pages 817 to 847.

### PROFESSIONAL SESSIONS

With the President of the Conference, Mr. Granville Shaw, in the chair, Professional Sessions were held on the mornings of Tuesday, September 4, when Mr. F. W. Adams read a paper on "Professional Conduct," and Friday, September 7, when Mr. H. W. Tomski read a paper on "Developments affecting Pharmaceutical Practice." Full reports of the papers and discussions were published in *The Pharmaceutical Journal*, 1956, 177, 203-211, 235-242.

### THE CLOSING SESSION

The closing session of the Conference was held on Friday, September 7, in the Great Hall of University College, Dublin, the Chairman, Prof. K. Bullock, presiding.

## VOTE OF THANKS TO THE DUBLIN COMMITTEE

The CHAIRMAN called on Mr. P. G. Flood to propose a vote of thanks to the Local Committee. This was seconded by Mr. F. H. Oliver. The CHAIRMAN then presented to the Pharmaceutical Society of Ireland an ivory gavel provided from the Bell and Hills Fund. Mr. P. McGrath (Chairman of the Local Committee) replied to the vote of thanks and acknowledged the gift.

## ANNUAL REPORT

Mr. H. G. ROLFE presented the following Annual Report of the Executive Committee.

Your Executive have pleasure in presenting the ninety-third Annual Report.

**MEMBERSHIP.**—In addition to Members, Honorary Members and Students of the Pharmaceutical Society, together with the Members of the Pharmaceutical Society of Northern Ireland, the Conference includes 66 members elected by the Executive.

**OBITUARY.**—The Executive report with deep regret the death, since the last Meeting, of F. W. Crossley-Holland, who was Honorary General Secretary, 1923 to 1927, Honorary Treasurer 1927 to 1934, and Chairman of the Conference in 1935.

**CONFERENCE RESEARCH PAPERS.**—Thirty-six papers were submitted and 32 accepted for presentation to the Conference. The Executive thank the authors for their contributions.

**JOURNAL OF PHARMACY AND PHARMACOLOGY.**—The report of the meeting of the Conference at Aberdeen was published in the 7th Volume of the *Journal of Pharmacy and Pharmacology*. The Executive has been represented on the Editorial Committee by the Chairman (Professor K. Bullock), Professor J. P. Todd and the Senior Honorary General Secretary.

**RELATIONSHIP WITH THE SOCIETY.**—Discussions were concluded with the Council of the Society in regard to the future of their Branch Representatives' Meeting held during the Conference week. Your Executive is very gratified to be able to report that agreement was reached whereby the following changes have been made:—

- (a) The Branch Representatives' Meeting has been discontinued as such and in its place, the Executive has agreed to arrange, as part of the Conference Programme, for the discussion of subjects of a professional nature on one whole day or two half days.
- (b) The Society has agreed to send delegates from their branches to the Conference as a whole instead of to the Branch Representatives' Meeting only.

**FUTURE MEETINGS.**—An invitation will be presented at this meeting for the Conference to meet in Bristol from September 2 to 6, 1957.

Several branches of the Society have made preliminary enquiries regarding the possibility of entertaining the Conference in future years and the Executive are grateful for all these offers of hospitality.

**CONSTITUTION AND RULES.**—It is recommended that the Constitution and Rules be amended to include the Editor of the *Journal of Pharmacy and Pharmacology* as an additional *ex officio* member of the Executive Committee.

**OFFICERS AND EXECUTIVE OF THE CONFERENCE.**—Your Executive have nominated the following Officers and members of the Executive for 1956—1957.

*Chairman:* Frank Hartley. *Vice-Chairmen:* R. R. Bennett, H. Deane, H. Humphreys Jones, T. E. Wallis, H. Brindle, B. A. Bull, Norman Evers, A. D. Powell, H. Berry, H. B. Mackie, G. R. Boyes, H. Davis, J. P. Todd and K. Bullock. *Honorary Treasurer:* H. Treves Brown. *Honorary General Secretaries:* H. G. Rolfe and E. F. Hersant. *Other members of the Executive:* K. R. Capper, J. W. Fairbairn, G. E. Foster, D. C. Garratt, J. B. Lloyd, W. Mitchell.

The above persons, together with the President of the Conference (the President of the Pharmaceutical Society of Great Britain *ex officio*), the three persons nominated by the Council of the Pharmaceutical Society of Great Britain, namely the persons for the time being holding the office of Vice-President, immediate past President and Chairman of the Organisation Committee, together with the

following *ex officio*: The Chairman of the Executive of the Scottish Department, the President of the Pharmaceutical Society of Ireland, the President of the Pharmaceutical Society of Northern Ireland, the Editor of the *Journal of Pharmacy and Pharmacology*, the Chairman of the Local Committee and the Honorary Local Secretary, will form the Executive for 1956-1957.

Mr. J. C. HANBURY proposed the acceptance of the report and the election of officers of the Conference for the ensuing year. Mr. W. T. WING seconded.

Mr. S. DURHAM, Sheffield, asked whether members of the Conference were entitled to make nominations for membership of the Executive.

Mr. H. G. ROLFE, in reply, read the relevant passage of the Constitution and Rules.

Dr. F. HARTLEY thanked the Conference on behalf of the newly-elected officers.

#### TREASURER'S REPORT

Mr. H. TREVES BROWN presented and proposed the adoption of the following Report and Statement of Accounts for the year 1956:—

During the year ended 31st December, 1955, the income from interest on investments, together with the donation of £25 from the Pharmaceutical Society of Northern Ireland and from the Pharmaceutical Society of Ireland, amounted to £86 16s. 10d. The sum of £41 6s. 3d. was spent in the purchase of six replicas of the Chairman's badge. Five of these are held in stock for future use (and are shown at cost as an asset in the Balance Sheet) and only the cost of the replica issued in 1955 has been charged in the Income and Expenditure Account. This, together with the purchase of a gavel as a memento to the Aberdeen Branch, made a total expenditure for the year of £14 13s. 9d., leaving a surplus of £72 3s. 1d. to carry forward.

With the addition of this surplus the Accumulated Fund on 31st December, 1955, amounted to £1,871 3s. 4d. In addition, the Balance Sheet contains the Local Committee Fund consisting of a donation of £250 from the London Committee 1953, held by the Executive to assist a Branch if necessary in the initial stages of preparation for a Conference. These two funds, amounting together to £2,121 3s. 4d., are represented by: Cash, £50 7s. 10d.; Post Office Savings Bank Account, £586 8s. 0d.; Replicas of Chairman's badge £34 7s. 6d.; and 3% Savings Bonds, 1960-70, £200; together with the original donation by Alderman Clayton of Consols to the nominal value of £1,250. The realisable value of the Funds at the end of the year was £1,540. The large fall in the market value of the investments is not important as the investments are held for interest.

Subscriptions from elected members, including composition fee from the Pharmaceutical Society of Northern Ireland amounted to £134 10s. 0d. and were credited to the account of the *Journal of Pharmacy and Pharmacology*.

Expenditure of £928 1s. 6d., which included £415 17s. 6d., the cost of the scheme for assisting young pharmacists, paid by the Pharmaceutical Society of Great Britain towards the general expenses of the Conference, was included in the Pharmaceutical Society's Financial Statement presented at the Annual Meeting in May of this year.

#### BRITISH PHARMACEUTICAL CONFERENCE ACCOUNT

##### INCOME AND EXPENDITURE ACCOUNT, 1955

<i>Expenditure</i>	£ s. d.	<i>Income</i>	£ s. d.
Gavel—memento to Aberdeen Branch	7 15 0	Interest on 2½% Consols .. ..	22 12 10
Replicas of Chairman's Badge and engraving less stock carried forward	6 18 9	Interest on 3% Savings Bonds ..	6 0 0
Surplus carried to Balance Sheet	72 3 1	Interest on P.O. Savings Bank Account .. ..	8 4 0
		Donation from Pharmaceutical Society of Northern Ireland ..	25 0 0
		Donation from Pharmaceutical Society of Ireland .. ..	25 0 0
	<u>£86 16 10</u>		<u>£86 16 10</u>

##### BALANCE SHEET AT 31ST DECEMBER, 1955

<i>Liabilities</i>	£ s. d.	<i>Assets</i>	£ s. d.
Accumulated Fund, as at 31.12.54 ..	1,799 0 3	Investments (a) £1,250 2½% Consols (Donation by the late Alderman Clayton of Birmingham) (Market value at 31st December, 1955: £706) .. ..	1,250 0 0
Add Surplus 1955 .. ..	72 3 1	Investments (b) £200 3% Savings Bonds 1960-70 (Market value at 31st December, 1955: £163) ..	200 0 0
	1,871 3 4	Stock of Replicas of Chairman's Badge .. ..	34 7 6
Local Committee Fund:—		Post Office Savings Bank Account ..	586 8 0
Donation from London Committee, 1953 .. ..	250 0 0	Cash at Westminster Bank .. ..	50 7 10
	<u>£2,121 3 4</u>		<u>£2,121 3 4</u>

H. TREVES BROWN,  
Honorary Treasurer.

The President seconded, and the Report was adopted.



Years	Places of Meeting	Chairmen	Local Secretaries
1930	CARDIFF	J. T. HUMPHREY.	J. MURRAY.
1931	MANCHESTER	J. H. FRANKLIN.	R. G. EDWARDS.
1932	ABERDEEN	H. SKINNER.	H. M. DUGAN.
1933	LONDON	C. H. HAMPSHIRE, M.B., B.S., B.Sc., F.R.I.C.	H. N. LINSTEAD.
1934	LEEDS	C. H. HAMPSHIRE, M.B., B.S., B.Sc., F.R.I.C.	G. C. CRUMMACK. J. F. SIMON.
1935	BELFAST	F. W. CROSSLEY-HOLLAND, L.M.S.S.A.	D. L. KIRKPATRICK.
1936	BOURNEMOUTH	HAROLD DEANE, B.Sc., F.R.I.C.	V. J. SCAMPTON.
1937	LIVERPOOL	T. EDWARD LESCHER, O.B.E.	W. E. HUMPHREYS.
1938	EDINBURGH	J. RUTHERFORD HILL, O.B.E.	C. G. DRUMMOND.
1939	BIRMINGHAM	J. RUTHERFORD HILL, O.B.E.	D. J. RUSHTON.
1940	LONDON	H. HUMPHREYS JONES, F.R.I.C.	_____
1941	LONDON	A. R. MELHUIISH.	_____
1942	LONDON	T. E. WALLIS, D.Sc., F.R.I.C., F.L.S.	_____
1943	LONDON	T. E. WALLIS, D.Sc., F.R.I.C., F.L.S.	_____
1944	LONDON	H. BRINDLE, B.Sc., F.R.I.C.	_____
1945	LONDON	H. BRINDLE, B.Sc., F.R.I.C.	_____
1946	LONDON	B. A. BULL, A.R.I.C.	_____
1947	TORQUAY	B. A. BULL, A.R.I.C.	T. D. EVANS.
1948	BRIGHTON	NORMAN EVERS, Ph.D., F.R.I.C.	A. WILSON.
1949	BLACKPOOL	NORMAN EVERS, Ph.D., F.R.I.C.	P. VARLEY. T. A. DURKIN.
1950	GLASGOW	A. D. POWELL, F.R.I.C.	A. OFFICER.
1951	HARROGATE	H. BERRY, B.Sc., Dip. Bact. (London), F.R.I.C.	R. W. JACKSON.
1952	NOTTINGHAM	H. B. MACKIE, B.Pharm.	W. E. NEWBOLD. Miss G. M. WATSON.
1953	LONDON	G. R. BOYES, L.M.S.S.A., B.Sc., F.R.I.C.	J. M. ROWSON.
1954	OXFORD	H. DAVIS, C.B.E., B.Sc., Ph.D., F.R.I.C.	T. R. HARDY.
1955	ABERDEEN	J. P. TODD, Ph.D., F.R.I.C.	G. L. DICKIE.
1956	DUBLIN	K. BULLOCK, M.Sc., Ph.D., F.R.I.C.	D. J. KENNELLY.

### Honorary Treasurers (One)

1863 to 1870, H. B. BRADY, F.R.S.	1925 to 1927, R. R. BENNETT, B.Sc., F.R.I.C.
1870 to 1877, GEORGE F. SCHACHT, F.C.S.	1927 to 1934, F. W. CROSSLEY-HOLLAND, L.M.S.S.A.
1877 to 1884, C. EKIN, F.C.S.	1934 to 1936, T. E. LESCHER, O.B.E.
1884 to 1888, C. UMNEY, F.I.C., F.C.S.	1936 to 1940, A. R. MELHUIISH.
1888 to 1890, W. MARTINDALE, F.C.S.	1940 to 1947, T. MARNS.
1890 to 1893, R. H. DAVIES, F.I.C., F.C.S.	1947 to 1952, G. R. BOYES, L.M.S.S.A., B.Sc., F.R.I.C.
1893 to 1898, JOHN MOSS, F.I.C., F.C.S.	1952 to 1953, H. DAVIS, B.Sc., Ph.D., F.R.I.C.
1898 to 1912, JOHN C. UMNEY, F.C.S.	1953 to H. TREVES BROWN, B.Sc.
1912 to 1925, D. LLOYD HOWARD, J.P., F.C.S.	

### Honorary General Secretaries (Two)

1863 to 1880, PROF. ATTFIELD, Ph.D., F.R.S.	1912 to 1923, R. R. BENNETT, B.Sc., F.R.I.C.
1863 to 1871, RICHARD REYNOLDS, F.C.S.	1919 to 1929, C. H. HAMPSHIRE, C.M.G., M.B., B.S., B.Sc., F.R.I.C.
1871 to 1884, F. BENDER, F.C.S.	1923 to 1927, F. W. CROSSLEY-HOLLAND, L.M.S.S.A.
1880 to 1882, M. CARTEIGHE, F.C.S.	1927 to 1944, C. E. CORFIELD, B.Sc., F.R.I.C.
1881 to 1886, SIDNEY PLOWMAN, F.R.C.S.	1929 to 1947, G. R. BOYES, L.M.S.S.A., B.Sc., F.R.I.C.
1884 to 1890, JOHN C. THRESH, M.B., D.Sc.	1944 to 1953, H. TREVES BROWN, B.Sc.
1886 to 1901, W. A. H. NAYLOR, F.I.C., F.C.S.	1947 to H. G. ROLFE, B.Sc., F.R.I.C.
1890 to 1903, F. RANSOM, F.C.S.	1953 to E. F. HERSANT, B.Pharm., Ph.D., F.R.I.C.
1903 to 1909, EDMUND WHITE, B.Sc., F.I.C.	
1901 to 1921, E. SAVILLE PECK, M.A.	
1909 to 1919, HORACE FINNEMORE, B.Sc., F.R.I.C.	

Closing Session (continued).

### PLACE OF MEETING FOR 1957

Mr. K. J. ADAMS (Chairman of the Bristol and District Branch) extended an invitation to hold the Conference in Bristol in 1957.

Mr. H. H. CAMPBELL proposed that the invitation be accepted, and Dr. J. C. PARKINSON seconded. The vote was put to the meeting and unanimously carried.

### VOTE OF THANKS TO CHAIRMAN

Dr. E. SHOTTON proposed a vote of thanks to the Chairman.

Mr. C. E. TURNER seconded. The vote was put to the meeting by the President and carried with acclamation.

Prof. BULLOCK briefly responded.