

PROCEEDINGS OF THE FIFTY-SECOND MEETING,  
BEING THE FIFTH ANNUAL GENERAL MEETING.

HELD in the Applied Science Department, the University, St. George's Square, Sheffield, on Wednesday, April 26th, 1922, at 2.30 p.m., the PRESIDENT in the Chair.

The Fifth Annual Report of the Council (together with the Balance Sheet) for the year 1921 having been circulated, was taken as read, approved, and adopted.

The Report ran as follows :—

FIFTH ANNUAL REPORT OF THE COUNCIL.

THE membership of the Society on December 31st, 1920, stood at 620. During the year 1921, 63 new members were elected, of whom 5 were Collective and 58 Ordinary Members. In addition, the first Honorary Member was elected.

The statement of membership may be summarised in the following tables which enable a survey to be made of the geographical distribution of membership.

A. *Total Members elected up to the end of 1921.*

Honorary .....	1
Collective .....	149
Ordinary .....	569
Student .....	24
	743

B. *Members on the Roll, December 31st, 1921.*

Location.	Honorary.	Collective.	Ordinary.	Student.	Totals
British Isles .....	1	126	363	4	494
Argentina .....	—	—	1	—	1
Australia .....	—	2	3	—	5
Belgium .....	—	—	1	—	1
Canada .....	—	—	5	—	5
China .....	—	—	4	—	4
France.....	—	4	6	—	10
Holland .....	—	1	1	—	2
India .....	—	1	11	—	12
Japan .....	—	2	14	—	16
South Africa .....	—	1	2	—	3
Spain .....	—	—	1	—	1
Sweden .....	—	—	7	—	7
U.S.A. ....	—	5	97	—	102
	1	142	516	4	663

It will be noted that the foreign membership has more than kept pace with the additional membership in the British Isles.

Of the new members, some 11 are resident in the United States, and it is anticipated that further increases will take place of members resident there, especially in view of the efforts of Mr. Wm. M. Clark, the American Treasurer, and of other members of the Society in making known our activities, and in giving publicity to the JOURNAL.

In these times, when efficiency counts for so much, the Council believes that every firm in the British Isles interested in the glass industry should be a member of the Society, and so acquire all the latest technical information available.

The Council has to regret the death of the following member during the year :—

C. M. Brooke.

The following members have resigned :—

(a) *Collective.*

British and Foreign Bottle Co.	Indian Munitions Board.
British Chemical Ware Manufacturers' Association, Ltd.	Lambeth Glass Works, Ltd.
British Glass Industries, Ltd. (Leeds Branch).	Scientific Glass Co.
Campbell Bros.	Thompson Glass Co.
J. Crosfield & Sons.	P. T. Turner & Co., Ltd.
General Electric Co., Ltd.	Thos. Webb & Sons, Ltd.
Harvey Free, Ltd.	Welsbach Light Co., Ltd.
	Webb's Crystal Glass Co., Ltd. (Tutbury Branch).

(b) *Ordinary.*

J. Callie.	R. McInnes.
C. F. Claudon.	C. K. McLeod.
Col. O. L. Eugster.	H. M. Read.
R. F. Hind.	G. W. Reynolds.
Dr. R. S. Hutton.	W. H. Trewartha-James.
F. A. Kirkpatrick.	T. E. Wood.
Miss C. M. M. Muirhead.	A. R. Young.

Eight members have been removed through non-payment of subscription.

At the Annual General Meeting in 1921 a number of changes were made in the Society's Constitution and Rules and new copies of the Constitution and Rules have been printed and circulated to all members. One important change was the institution of Honorary Membership, and Prof. P. G. H. Boswell, who had given such excellent service to the Society during its early years, was elected the first Honorary Member.

The Society also felt that it might with advantage reduce the number of Vice-Presidents from 12 to 6, the reduction being spread over a period of three years.

Bearing in mind the numerous anxieties which all members of the industry have borne during 1921, the attendance at meetings

must be considered as very good. Two meetings of exceptional interest were the discussion on the use of Oil Fuel in the Glass Industry, and the general discussion on the Melting of Glass and allied problems. The discussion on the latter subject introduced a new feature, which was very much appreciated, into the work of the Society, and will probably be continued from time to time.

During the year, the Society on the occasion of its meetings has had the opportunity of visiting several splendidly equipped works. The Council desires to acknowledge the kindness of the firms in question and to thank them for the privilege so afforded.

The fifth volume of the JOURNAL contained 44 pages of Proceedings, 32 original papers contributed to the Society occupying 363 pages, and 383 Abstracts and Reviews occupying 220 pages. These figures represent an increase in the number of Abstracts and Reviews over Vol. IV. The number of papers in the Transactions remains the same, but the total pages occupied are somewhat fewer.

The number of volumes in the Society's Library at the end of 1921 was 190, representing an increase of 15. A catalogue was compiled during the year and is in the press.

Following the Annual General Meeting in April, the Third Annual Dinner was held at the Hotel Cecil, London, when 97 members and guests were present.

The Council expressed its readiness to co-operate with the National Physical Laboratory in connection with a Conference on Scientific Glassware held in London. At this Conference it was proposed to form a Standing Committee on the Standardisation of Scientific Glassware, and the Council nominated the President of the Society, Dr. M. W. Travers, F.R.S., to represent it on this Committee.

In August, 1921, the Society learned with much pleasure that the American Ceramic Society had accepted the invitation to visit this country in the early autumn of 1922. This visit is eagerly anticipated as confirming and establishing the good relationship between the two Societies.

Despite the difficult financial position of the industry, the Balance Sheet of the Society is to be regarded as highly satisfactory, and as some indication of the way in which it meets the technical needs of the industry. The total income for the year amounted to £1,787 19s. 6d. Of this the cost of printing the JOURNAL and abstractors' remuneration amounted to more than £1,230. The sales of various numbers of the JOURNAL have also been considerable, amounting to £261 17s. 3d. On the year's working, there results a balance of £84 19s. 4d., which, with the balance in hand, makes a total balance of £122 10s. 6d.

## SOCIETY OF GLASS TECHNOLOGY.

### DINNER ACCOUNT, 1921.

EXPENDITURE.				£	s.	d.	INCOME.				£	s.	d.	
To Deficit, 1920 Account	...	...	...	5	8	7	By Tickets sold	...	...	...	64	2	6	
„ Hotel for Dinner	...	...	51	9	0		Less Returned	...	...	...	3	10	0	
„ „ for Printing	...	...	2	2	0									
						53	11	0	„ Donation from Dr. M. W. Travers	...	...	3	1	10
„ Other Printing	...	...	...	1	8	0								
„ Postages	...	...	...		16	8								
„ Gratuities	...	...	...	2	10	0								
„ Balance, being Excess of Income over Expenditure						1								
				£63	14	4					£63	14	4	

## SOCIETY OF GLASS TECHNOLOGY.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDING DECEMBER 31ST, 1921.

EXPENDITURE.	£	s.	d.	£	s.	d.	INCOME.	£	s.	d.	£	s.	d.
To Abstractors' Remuneration	...	...	...	44	9	6	By subscriptions :	...	...	...	...	...	...
„ Advertising ...	...	...	...	3	15	0	(a) Collective	...	...	...	396	18	0
„ Bank Charges	...	...	...	2	14	6	(b) Ordinary	...	...	...	568	10	0
„ Binding Books and Periodicals	...	...	...	21	14	6	(c) Student	...	...	...		10	0
„ Binding and Cases for Journal	...	...	...	20	15	0	(d) American *	...	...	...	119	3	6
„ Books and Periodicals	...	...	...	7	7	6	(e) Odd Amounts	...	...	...	10	10	11
„ Carriage	...	...	...		7	5	(f) Paid 1920 for 1921	...	...	...	18	3	0
„ Expenses of Meetings	...	...	...	4	19	0	(g) In Arrears	...	...	...	4	16	0
„ Library List	...	...	...	19	0	0					1118	11	5
„ List of Members	...	...	...	25	5	0	„ Bank Interest	...	...	...	19	1	0
„ Office Expenses	...	...	...	8	2	3	„ Binding Cases sold to Members	...	6	15	1		
„ Postages, etc.	...	...	...	44	6	7	Ditto—Non-members	...		7	3		
„ Printing, etc., of Journal No. 17	332	6	10				„ Journals sold to Members	...	83	15	7		
No. 18	279	0	0				Ditto—Non-members	...	178	1	8		
No. 19	275	10	1								7	2	4
No. 20	211	15	0				„ Commission on Advertisements in						
				1098	11	11	Journal						
„ Printing Notices and Stationery, etc.	...	...	...	81	12	1	No. 17	103	10	0			
„ Printing Preliminary Matter and Enlarged Index, Vol. I.	...	...	...	16	1	3	No. 18	94	10	0			
„ Reprints, Authors', Journal No. 17	26	10	6				No. 19	90	0	0			
No. 18	17	7	9				No. 20	93	7	6			
No. 19	17	1	8								381	7	6
No. 20	14	2	6										
				75	2	5							
„ Salaries	...	...	...	220	2	8							
„ Travelling Expenses	...	...	...	8	13	7							
„ Balance, being surplus of Income over Expenditure for the year 1921	...	...	...	84	19	4							
				<u>£1787</u>	<u>19</u>	<u>6</u>					<u>£1787</u>	<u>19</u>	<u>6</u>

\* Less expenditure re Purchase of American Periodicals, etc., and for advertising.



The meeting then proceeded to the election of officers for the year 1922-23.

The following lists contain the names (1) of officers whose term of office expired, and (2) of Members who were elected in accordance with the Rules of the Society to fill the vacancies.

(1)

(2)

*President.*

M. W. TRAVERS, D.Sc., F.Inst.P., F.I.C., F.R.S.      Prof. W. E. S. TURNER, O.B.E., D.Sc., M.Sc., F.Inst.P.

*Vice-Presidents.*

G. E. ALEXANDER, O.B.E.	W. W. WARREN, A.M.I.C.E.,
J. E. FOXON.	A.M.I.E.E.
CONGREVE JACKSON.	C. J. PEDDLE, M.B.E., D.Sc., F.I.C.,
Col. C. W. THOMAS.	F.Inst.P.
	W. BUTLER.*

*Ordinary Members of Council.*

F. J. BOAM.	H. H. ASQUITH.
S. ENGLISH, M.Sc., A.I.C.	W. BUTTERWORTH, Jnr., M.A.
J. S. SHAW.	J. H. DAVIDSON, M.Sc., F.I.C.
W. W. WARREN, A.M.I.C.E.,	F. W. HODKIN, B.Sc., A.I.C.
A.M.I.E.E.	V. H. STOTT, M.Sc.
DUNCAN WEBB, Jnr.	

*Treasurers.*

F. G. CLARK (General).	J. CONNOLLY (General).
WM. M. CLARK, Ph.B. (American).	WM. M. CLARK, Ph.B. (American).

*Secretary.*

W. E. S. TURNER, O.B.E., D.Sc.,	F. GRAVES CLARK.
M.Sc., F.Inst.P.	

*Assistant Secretary.*

C. J. PEDDLE, M.B.E., D.Sc., F.I.C.,	S. ENGLISH, M.Sc., A.I.C.
F.Inst.P.	

*Auditors.*

F. P. WAINWRIGHT.	EDWARD MEIGH, M.B.E., M.Sc.
DENNIS WOOD, F.S.A.A.	DENNIS WOOD, F.S.A.A.

Dr. M. W. TRAVERS gave a hearty welcome to his successor as President, Prof. W. E. S. Turner, and then vacated the Chair.

Prof. TURNER expressed his sincere thanks, both to Dr. Travers and to the audience, for the great welcome they had given him in assuming the office of President.

Hearty votes of thanks were accorded to the retiring officers of the Society for their services during the past year.

\* To fill vacancy caused by election of Mr. J. Connolly as General Treasurer.

Dr. M. W. TRAVERS, the retiring President, replied.

On the motion of Mr. F. GRAVES CLARK, seconded by Dr. M. W. TRAVERS, it was RESOLVED—

That a grant of Fifty Pounds (£50) be made to the Department of Glass Technology, The University, Sheffield, to promote research.

Prof. W. E. S. TURNER, O.B.E., D.Sc., then delivered the Presidential Address, his subject being, "The British Glass Industry, Its Development and Outlook."

Mr. J. CONNOLLY said he had been asked to propose a vote of thanks to their President for his address. Before doing so, he must first of all congratulate the Society in having secured for its President such an industrious man as Professor Turner. He had stated in his historical survey that at a certain period there were noblemen of high rank interested in the glass trade. He thought they had got a nobleman to-day as President. Prof. Turner evidently realised, in the latter part of his address, that a great cause and a great inspiration were not sufficient: they must certainly be accompanied by a great victory. The latter part of his address, he thought, made a call on them, and he was sure they all felt they had had plenty of food for reflection. They hoped that both health and strength would be given to the President to continue right through the year.

Mr. W. BUTLER said he had very great pleasure in seconding the vote of thanks given to Prof. Turner for his wonderful speech that afternoon, and he would like to impress on those who had to deal with its publication that no word should be left out. It contained hope and encouragement which all manufacturers needed, and he would like to see a full verbatim report distributed widely at as early a date as possible.

THE VERY REVEREND WILLIAM FOXLEY NORRIS, D.D., Dean of York, addressed the meeting on "The Medieval Glass of York Minster."

A discussion followed in which there took part the President, Dr. M. W. Travers, W. Butler, and T. Robertson.

An opportunity for social intercourse was afforded after the meeting, when tea was provided.

The following were elected members :—

(a) *Collective Members.*

Messrs. Yorkshire Amalgamated Products, Ltd., 27, Waterdale, Doncaster.  
The Ohio State University, Columbus, Ohio, U.S.A.



Ibri Lucas Sills, B.Sc.  
Wilbur Robert Smith.  
Archibald Hall.  
William John Moody-Smith.  
Professor C. W. Waggoner,  
B.S., A.M., Ph.D.

(b) *Ordinary Members.*

*Chemist*, Messrs. Consumers Glass Company,  
P.O. Box 40, Montreal, Canada.  
Messrs. Illinois Glass Co., Bridgeton, N.J.,  
U.S.A.  
*Glass House Manager*, Messrs. British Glass  
Industries, Ltd., Canning Town, London,  
E. 16.  
*Engineer*, Messrs. British Glass Industries,  
Ltd., Canning Town, London, E. 16.  
*Professor of Physics*, West Virginia Uni-  
versity, Morgantown, W.Va., U.S.A., and  
*Consulting Engineer to Glass Manu-  
facturing Companies.*