

PROCEEDINGS OF THE SIXTY-FOURTH MEETING.

HELD in the Applied Science Department, The University, St. George's Square, Sheffield, on Wednesday, October 17th, 1923, at 3.0 p.m., the President, Prof. W. E. S. TURNER, D.Sc., in the Chair.

A cordial welcome to the meeting was given to Sir W. Henry Hadow, C.B.E., M.A., D.Mus., Vice-Chancellor of the University of Sheffield, and to Prof. W. Rothenstein, M.A., Principal of the Royal College of Art, London, and Professor of Civic Art in the University of Sheffield, who attended in connection with the presentation of "Frank Wood" medals.

Before presenting these medals to the successful students, Sir HENRY HADOW said he felt sure they would not expect an oration, especially as they had on the agenda some remarkable and interesting papers for discussion. It was a very great pleasure for him to be there that afternoon and to take part in a very enjoyable ceremony, and particularly, after what their President had said, to do so in the presence of Prof. Rothenstein, to whom they were ultimately indebted for the work which had been put into the beautiful medal through a student of his college. It was very seldom one got any artistic design applied to the industry, as appeared on these medals.

They were very glad of the Department of Glass Technology, because it enabled them to count among their members Prof. Turner, and he really thought it was a feather in the University's cap, as it stood out among the Universities of this and other countries in applying its scientific help and service to a great and important industry like glass. It had, as they knew, been going through deep waters during the last few years, but most of the industries had been hit hard since the war, and the glass industry certainly not less than other industries, and the University had had to bear some part of this. On that point he quite recognised the difficulties they had been going through. He had attended some of the business and so-called financial meetings of the Delegacy. He was quite sure, however, that things were coming right, and in the course of time they would pull through, and the Department would flourish as it ought to do.

A great deal of help was given to them in their work and to their appeals by such a Society as theirs. He was very pleased indeed to see it meeting there that afternoon.

Amongst the greatest supporters of the glass work which the

University had in that district there was no one whom they honoured more than Mr. Frank Wood, and it was entirely appropriate that the medals they were awarding that afternoon should bear his name.

He would just like to say a word or two about the two successful students who had won these medals. One, Mr. F. Winks, had taken up a post as Student Research Assistant in the Department of Glass Technology of Sheffield University, and he would like to congratulate him on that appointment and hoped it would lead him to success in the future. To the other student, Mr. A. R. Sheen, they were especially grateful for having done good service in more than one sphere, not only as an enthusiast of glass, but also as a participant in University athletics, and he believed also in University music.

Sir HENRY HADOW then presented the medals to the two successful students, Arthur Renwick Sheen, B.Sc.Tech., and Francis Winks, B.Sc.Tech.

The PRESIDENT observed that the design of the "Frank Wood" medal was the work of Mr. Percy Metcalfe, a former pupil of Prof. Rothenstein's. The latter, at the request of Prof. Turner, then addressed the meeting.

Prof. Rothenstein remarked that he would just like to say one thing with regard to the medal, namely, that it had been the custom during the last century when medals were required, to go to France for them, but whenever an Englishman got his chance he showed how much better he could do the work than anyone else. He had a sense of power which one found all true British had, but for some reason or other people would not realise that to have faith in their own contemporaries was one of the first duties of citizenship. He hoped that those who were going to want medals in the future would remember when any work of this kind was to be done that there were those in this country who could do it. He hoped they would take it from him that good medals were always the rarest form of art, and the Society's particular medal would have its place in history. He desired to congratulate the winners, not only for the fine tribute to their own work the medals represented, but also in being able to hand them on as heirlooms representing the best craftsmanship of their day.

On the motion of Col. S. C. HALSE, seconded by Mr. W. BUTTERWORTH, a cordial vote of thanks was accorded to Sir Henry Hadow and Prof. Rothenstein for their attendance at the meeting. Sir Henry Hadow replied.

The death was recorded with regret of Mr. P. C. Whittaker, managing director of Messrs. W. Nelson, Ltd., Manchester.

The PRESIDENT gave a short report of the visit to France during the first week of July. He said that those members who took part in the visit had expressed their warm appreciation of the hospitality and welcome which they had received.

On the motion of the PRESIDENT, seconded by Col. S. C. HALSE, a recommendation from the Council was unanimously adopted, namely,

“That a cordial invitation be sent to our members in France, and conjointly to the *Chambre Syndicale des Maitres de Verreries*, to meet us in conference in this country, some time during the year 1924.”

A vote of Thanks was accorded to Messrs. Vickers, Ltd., for their courtesy in permitting a party of members to visit their River Don Works, Sheffield, during the morning.

A paper entitled “The Effect of Titania on the Properties of Glass,” by A. R. SHEEN, B.Sc.Tech., and Prof. W. E. S. TURNER, D.Sc., was presented by the former and illustrated by lantern slides. Mr. Sheen’s remarks were supplemented by Prof. Turner, after which a discussion took place, those contributing being Messrs. W. J. Rees, S. English, Donald Robertson, W. F. Pearson, and W. Butterworth. Prof. Turner replied.

Mr. A. COUSEN, B.Sc., A.R.C.S., presented a paper entitled, “The Estimation of Selenium in Glass.” This paper was illustrated by experiments and elicited a discussion in which there took part the President, Messrs. W. J. Rees, J. H. Davidson, and J. R. Clarke. Mr. Cousen replied.

Votes of thanks were accorded to the authors of the papers presented to the meeting.

Opportunities for social intercourse were afforded when members met together for lunch before the meeting and at tea afterwards.

The following were elected Ordinary Members :—

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| Elbridge J. Casselman, S.B. | <i>Chemical Engineer</i> , Mellon Institute of Industrial Research, Pittsburgh, Pa., U.S.A. |
| Max Henry Cornaz. | <i>Electro-Chemical Engineer</i> , Verreries de St. Prex, and Glashütte, Bülach, Switzerland. |
| Mrs. May Badger Craven, M.Sc.Tech. | <i>Assistant Lecturer in Chemistry</i> , College of Technology, Manchester. |
| Pau Cheng King, B.S. | <i>Engineer</i> , The Yao Hera Mechanical Glass Co., Chinwangto, China. |
| Jean Maillet. | <i>Chemical Engineer</i> , 3, rue de Castellane, Paris. |

Alfred Oppenheimer.

Frederick Jobbé-Duval.

Samuel Peacock.

Glass Bottle Merchant, 14, Queen Victoria Street, London, E.C. 4.

Engineer, Managing Director, Bouteilleries de Lommel.

Director, Suite 405, Wheeling Steel Corporation Building, Wheeling, W.Va., U.S.A.