

glue; in the other, of carefully made india-rubber tube four or five millimetres in thickness, of a very small uniform bore, made expressly for the purpose by the Edinburgh Rubber Company. The iron funnel-shaped receptacles are ground at the inner apex, so as to fit perfectly finely-ground iron tubes. By means of these tubes the preliminary exhaustions are made by a hand pump, and then they are withdrawn. This device saves a separate joint. The barometer tubes are attached to solid T-shaped pieces of iron tube, and between these pieces and the main tubes each has a small glass bulb. Both forms work for all practical purposes as well as glass, and suit admirably for Frankland's water analyses, and Graham's experiments, &c. They may be procured from Mr Cameron, philosophical instrument maker, South Bridge, Edinburgh.

5. Professor Alexander Dickson exhibited a large series of abnormal cones of *Pinus Pinaster* which were to form the subject of a future communication to the Society.

The following Gentleman was balloted for and admitted as a Fellow of the Society :—

ARCHIBALD CONSTABLE, Esq.

Monday, 4th March 1872.

PROFESSOR MACQUORN RANKINE, Vice-President,
in the Chair.

The following Communications were read :—

1. On the Connection between Chemical Constitution and Physiological Action—*Continued*. On the Physiological Action of the Salts of Trimethylsulphin. By Prof. Crum Brown and Dr Thomas R. Fraser.

In the former parts of this investigation we studied the physiological action of the salts of a considerable number of ammonium