

meters constructed on this principle, which have been found to answer perfectly. The method is described in a short paper which will be read to the Society to-morrow.

“For obtaining specimens of water from any depth to which the dredging extends, the Committee have procured an instrument constructed as to its leading features on the plan of that described by Dr. Marcet in the *Philosophical Transactions* for 1819, and used successfully in the earlier northern expeditions.

“Mr. Gwyn Jeffreys is now out on the first Cruise of the ‘Porcupine,’ the vessel which the Admiralty have sent out for the purpose, and is accompanied by Mr. W. L. Carpenter, B.Sc. (son of Dr. Carpenter), who undertakes the general execution of the physical and chemical part of the inquiry. A letter has been received by the President from Mr. Jeffreys, who speaks highly of the zeal and efficiency of Mr. Carpenter. The thermometers protected according to Dr. Miller’s plan, and the instrument for obtaining specimens of water from great depths, have been found to work satisfactorily in actual practice. Mr. Siemens’ instrument was not quite ready when the vessel started on her first Cruise, and was not on board when the above letter was written. The gas-analyses have been successfully carried on, notwithstanding the motion of the vessel. From a letter subsequently received from Mr. Carpenter, it appears that Mr. Siemens’ apparatus, so far as it has yet been tried, works in perfect harmony with the thermometers protected according to Dr. Miller’s plan.”

“*June 16, 1869.*”

Resolved,—That the Report now read be received and entered on the Minutes.