The observations of the Soil Thermometers set up in Oct., 1894, have been continued throughout the year. The reduction of the observations has been recently completed under the supervision of Professors McLeod and Callendar, who will contribute an account of the work to the Royal Society in continuation of the report presented by Professor Callendar last year.

During the summer vacation of 1895, Professor Callendar was engaged with Professor Nicolson in a research on Cylinder Condensation. The electrical thermometers required for this work were made and calibrated in the Physics Building. It is hoped that the results of this work, which are in many respects new, may be presented shortly to the Society of Civil Engineers in London.

Mr. H. M. Tory, M.A., has been engaged in the intervals of his other work, in an investigation of the thermo-electric properties of iron and copper, with a view to the accurate verification of the formulæ of Avenarius and Tait. He is now proceeding to extend his results to higher temperatures, and in particular to make a comparison between the two systems of electrical pyrometry.

Mr. F. H. Pitcher, B.A.Sc., Derionstrator in Physics, has been engaged in studying the magnetic properties of iron at high temperatures, by a new method designed by Professor Callendar. He has already obtained results of considerable interest, which he hopes to extend to other magnetic metals.

Mr. H. T. Barnes, B.A.Sc., has been engaged with Professor Callendar in investigating the nature and extent of the temperature variations of the E. M. F. of the Clark Standard Cell. This work, which was primarily undertaken with a view to completing the electrical standards equipment of the Physics Building, has brought to light several new points of interest. The results are now approaching completion, and will, it is hoped, be communicated shortly to the Royal Society of London.

Mr. R. O. King, B.A.Sc., 1851 Exhibition Scholar, has been engaged on a new electrical method of measuring the thermal conductivity of metals. He is endeavoring to settle the much disputed question as to whether the conductivity is constant or varies with the temperature. In connection with the same method, he is also attempting to verify the very difficult experiments of Lord Kelvin on the existence of the "Thomson" effect, and to measure its amount.

Mr. R. W. Gill, B.A.Sc., is at present engaged in a research on Hysteresis, which he is conducting with special apparatus designed on a new principle.

The whole respectfully submitted,

(Signed), JOHN COX,

Secretary.