

measured, and were found to be 52 thousandths of an inch in diameter, in their natural state.

Dr. Hume exhibited a portable Gyroscope, lent for the purpose by Mr. Chadburn of Lord street, and drew attention to the various motions of which it was susceptible. He also explained to the meeting the scientific\* principles which were thus illustrated.

Mr. H. Meeson, on the part of Mr. Agnew, of Manchester, laid before the Society a selection of sixteen Photographs, from the series of Fenton's Crimean Illustrations. They consisted of six portraits of Generals, and ten Landscapes and Groups, in and near Balaclava.

The following Paper was then read :—

DESCRIPTION OF A PATENT ABACUS. *By J. Gregory Jones, Esq.*

This Abacus was invented and patented by Mr. Jones, who is one of the officers of the Collegiate Institution. It was placed in the meeting-room. The object of it is to familiarize the pupils of our Schools with the operations of Addition; and thus to save the time of both teacher and pupils, or to afford greater leisure for the explanation of principles. By the simple movement of a slide, a vast number of combinations can be obtained, each of which may be distinguished with facility, by a number, for reference to a printed Key. This states the correct sum of every arrangement of columns of figures, and thus affords an easy means of comparing the result which the pupil produces. The practical mode of using the instrument was shown; and some of those to whom its use had been familiar, displayed great celerity and accuracy in the process of adding.

---

6th December, 1855. ARCHEOLOGICAL SECTION.

SAMUEL GATH, Esq., in the Chair.

The following gentlemen were duly elected members of the Society :—

William Allcard, Esq., Bank House, Warrington.  
 Edward Batty, Esq., 34, Stafford Street.  
 J. Black, M.D., F.G.S., Southport.  
 John Bowes, Esq., Warrington.  
 F. Crace Calvert, F.C.S., &c., Royal Institution, Manchester.  
 James L. Crosse, Esq., 6, Sandon Terrace.  
 Edward Estill, Esq., Orange Court, Castle Street.  
 David Johnson Macfie, Esq., Bachelor Street, Dale Street.  
 John Newton, Esq., 15, West Derby Street.  
 William R. Sandbach, Esq., Bank Buildings, Cook Street.  
 John R. Shawe, Esq., Arrowse, Woodchurch, Cheshire.  
 George F. Wilson, F.R.S., F.S.S., Belmont, Vauxhall, London.

The following Donations were laid upon the table :—

From the Institute. The Archæological Journal, published under the direction of the Central Committee of the Archæological Institute; volumes VI, VII, VIII, IX, X, XI, and parts 1 and 2 of volume XII.

---

\* These experiments were exhibited by M. Foucault, the inventor, at the Meeting of the British Association at Liverpool; and an account of them is given in the Report for that Meeting, Proceedings, p. 56, under the title "*Nouvelles Expériences sur le Mouvement de la Terre au Moyen du Gyroscope.*" An account is also given in the *Comptes Rendus de l'Académie des Sciences*. On March 12th, 1855, the nature of these experiments was explained at the Ashmolean Society, Oxford, by the Rev. Robert Walker, M.A., Reader in Experimental Philosophy. Allusion was also made to them by the President, Lord Wrottesley, at the Anniversary Meeting of the Royal Society, November 30th, 1855, in presenting the Copley Medal to M. Foucault.—*Proceedings of the Royal Society*, volume vii, p. 574.