CORRESPONDENCE.

MR. SANG'S SEVEN FIGURE LOGARITHMS.

To the Editor of the Assurance Magazine.

SIR,—In reply to my offer of a copy of the new table of seven-place logarithms, for the indication of any error in it, Dr. A. W. Whitcom of Milwaukee, U.S.A., points out a last-place error in the logarithm of 52943. My calculations were made for the numbers above 100,000, and so are not chargeable with this error; its source is in Vlacq's ten-place table (1628), where there is a misprint of 85868 instead of 85468. This has passed into all the shortened tables, it is in Sherwin (1741), Taylor (1792), Callet (1795), Hutton (1804, 1838), Babbage (1841), Shortrede (1844), as also in John Newton's eight-place table (1658), wherein 80859 is put for 80855, thus showing that Vlacq's great work has served for the production of all the others. The true logarithm to seven places is ·7238085 ; from my manuscript table to 28 places in progress up to 10,000, I find

Log	4813 = ·68241	58616	77358	49039	14460	667
log	11 = ·04139	26851	58225	04075	01999	712
log	52943 = ·72380	85468	35583	53114	16460	379

It is remarkable that this error should have so long escaped detection, and all the more credit is due to its discoverer.

I am, Sir, your obedient Servant,

28 *May* 1872.   EDWARD SANG.