1106-VB-2495     **Treena Basu\*** (`basu@oxy.edu`), 4911 Range View Avenue, Los Angeles, CA 90042, and
**Lokenath Debnath**. *A Short History of Statistics and Its Application.* Preliminary report.

This paper deals with a short history of statistics and its applications. Included are mean, median, mode, midrange, errors of observations, Bernoulli's law of large numbers, principle of least squares, standard deviation and variance of data. Special attention is given to Gauss' derivation of the method of least squares with the formula for the variance of the continuous probability distribution. Fisher's celebrated maximum likelihood method for estimation of parameters is presented with examples of the unknown parameters in binomial, Poisson, and normal distributions. This is followed by a brief historical introduction to regression and correlation with regression curves, correlation coefficients and their properties. Some examples of applications are mentioned. Included is also some modern information that puts students, teachers, and statisticians at the forefront of current advanced study and research in analytical and computational aspects of statistics. (Received September 16, 2014)