On certain Variable Stars having the Appearance, visually, of Planetary Nebulae. By Cuthbert E. Peek, M.A.

Having observed variable stars regularly for the last seven years, I wish to call attention to a letter published in Knowledge 1892 March 1, in which I refer to the fact that a considerable number have, at times, the appearance of planetary nebulae as described by Herr E. von Gothard in the January number of the Monthly Notices. Without repeating the whole of the facts there given, I quote the following with regard to three stars:—

R. Cassiopeia, 1886 September 17, 8.7 mag.—A large, ill-defined, deep-red star. 1889 March 11, 9.6 mag. Very hazy and ill-defined, as if shining through ruddy mist. Other stars sharp.

T. Cassiopeia, 1889 September 10, 7.7 mag.—Very red. A well-defined star shining through a ruddy haze.

S. Herculis, 1891 October 14.—With power 132 a faint nebulosity is suspected in the place of the variable; on slightly swaying the telescope a bluish nebulosity is certainly seen. It will be remembered that Nova Aurigae was first described in the Times of 1892 February 3 as 'slightly fuzzy.' Instrument in use 6¼-inch equatorial refractor.

Rousdon Observatory:
1892 January 29.

Observations of Saturn in 1892. By M. Joseph Guillaume, of the Observatoire de Lyon.

(Communicated by the Rev. A. Freeman.)

The following is the translation of a letter received by Mr. Freeman from M. Guillaume, 1893 January 5.

"I must first of all tell you that I left my own observatory at Péronnas (near Bourg-en-Bresse) in September last for that of Lyons, where I am working under the direction of M. Ch. André.

"I have published nothing as yet upon Saturn in 1892, but I proceed to give you all that I could say about the planet, leaving it to you to communicate it to the Royal Astronomical Society in part or entirely as may appear best to you.

"A long course of bad weather at the beginning of the year hindered me from observing as much as I could have desired, especially in watching the transits of the satellites other than