

said that upon this earlier theoretical computation depends a great deal of the present theory of the generation of storms.

Dr. Hann tries to show by observations at Pic du Midi, Feb. 19–March 14, 1883, that the lowest pressure at that station did not accompany a high (anticyclone) at the base. It seems to me that this case establishes my position; and if Dr. Hann still insists that he is right, in the face of these observations, there is no possibility of our coming to an agreement, but others must settle the point between us. I have repeatedly insisted that we must discuss conditions at the centre of low and high only, and that we can never take a diminished or a low pressure either at the base or summit of a mountain to indicate that the centre of a low (cyclone) is passing over. It is also probable that there must be added to this, that the low or high must advance at some velocity from a westerly direction, or they must have simply their normal condition, as in the United States. In Europe I find tracks of both these conditions exceedingly erratic, frequently wandering toward the west, then again stopping, especially highs, for a week or more. We are almost totally unacquainted with such conditions in this country. It seems highly probable that the general acceptance of Espy's stationary low (cyclone) theory by the authorities in Europe is largely due to this cause. A velocity of forty miles an hour (eighteen metres per second), such as we encounter in this country, might stagger our Eastern meteorologists. In the case given by Dr. Hann there is a steady fall of pressure at Pic du Midi and Toulouse from about March 5 to March 10. On examining the weather-map, I find a wandering low moving erratically just before and up to March 9. It has very little intensity as we regard them in this country, and cannot be taken as a typical low (cyclone) in any sense. On the other hand, a high (anticyclone) appears in Spain on March 10, exactly the condition I have insisted on. In any event, it is plain that the low temperature is due to the strong northerly and north-westerly winds induced by the high and low combined, and has absolutely no connection with

the distribution of temperature in a vertical direction in the centre of a low (cyclone). The low does not approach Pic du Midi till March 9, when it is in North Italy. How any one can think that such a position of the low can have any bearing on this discussion seems impossible to understand. The low temperature at the summit undoubtedly was a factor in keeping down the pressure there.

Dr. Hann attempts to show that on the approach of a low on Mount Washington the temperature rises, owing to south and south-east winds in front. Loomis proved many years ago that the circulation in a low at sea-level does not take place at Mount Washington, so this speculation falls to the ground. It seems to me the discussion published in *Science*, Sept. 5, settles this question beyond a peradventure, although it would be a matter of gratification if some one else should be induced to repeat the investigation. I have just received a letter from Dr. Lürling of Germany, who has studied the matter thoroughly, and who agrees with my position that there is no reversal of temperature in a low, but is not quite willing yet to accept the same for a high. It seems to me the evidence is all one way, and that, if we accept the results of this investigation in the case of a low, we must do so also in that of a high.

H. A. HAZEN.

Washington, Oct. 10.

AMONG THE PUBLISHERS.

A BOOK has appeared from the press of Lippincott entitled "Hermetic Philosophy," by an acolyte of the "H. B. of L." It is the first of a series of works which the author proposes to write, expounding the principles of theosophy as taught in ancient and modern times, and especially as held by himself. It consists in part of matter borrowed from Plato and Plotinus, but in the main it expresses the ideas—or want of ideas—of the author. It has, of course, the usual character of such works; and, as usual, we are

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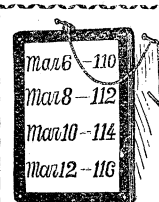
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told that it cannot be understood by ordinary intelligence,—a fact that we are not inclined to dispute. We did, however, find one proposition in the book which we not only understood, but believed. We read on p. 61 that "that which is immortal is not mortal; that which is mortal is not immortal." This we solemnly believe to be true, and we can only regret that the rest of the book is not equally valuable.

—Messrs. Funk & Wagnalls will publish in November a narrative poem in blank verse by William Cleaver Wilkinson, entitled "The Epic of Saul." The poem treats of the career of Saul the Pharisee up to the time of his conversion. Passages of the "Epic of Saul" have appeared in *The Century*, *The Independent*, and other periodicals, entitled as separate poems.

—*The Chautauquan* for November presents, among other articles, the following: "The Intellectual development of the English," by Edward A. Freeman; "The English Constitution," II., by Woodrow Wilson; "The Religious History of England," II., by Professor George P. Fisher; "How the Saxons Lived," Part II., by R. S. Dix; "The Tenure of Land in England," Part II., by D. McG. Means; "The Knight of the Round Table," by James Baldwin; "The Silver Bill," by Thomas H. Hamilton; "Studies in Astronomy," II., by Garrett P. Serviss; "How to see Southern Italy," by J. P. Mahaffy; "The Origin in Literature of Vulgarisms," by Professor Edward A. Allen; "Light-Houses and Other Aids to Navigation," by William Mooney; "Observations on Greenland," by Charles M. Skinner; "Silk Industries in France," by Albert de la Berge; "Home Building," I., by Byron D. Halsted.

—Herbert Ward, the African traveller, in "The Tale of a Tusk of Ivory," in the November *Scribner*, says, "From time immemorial the smooth, shining tusks of elephants have been acknowledged as currency by the savage tribes of the far interior of Equatorial Africa; and even in these days countless numbers of human lives are sacrificed in the bloody fights which are constantly

waged, both between the tribes themselves and the armed bands of half-caste Arab freebooters, solely for the sake of gaining possession of these tusks of ivory, which, by a series of novel exchange and bartering transactions, gradually reach the little stations of the white trader on the surf-bound coast." Professor N. S. Shaler, in his ethnographic researches, sought the record of a body of troops whose ancestors had been for many generations upon American soil, and he found it in the first brigade of Kentucky troops (Confederate). He says, "On May 7, 1864, this brigade, then in the army of Gen. Joseph Johnston, marched out of Dalton, 1,140 strong, at the beginning of the great retreat upon Atlanta before the army of Sherman. In the subsequent hundred days, or until Sept. 1, the brigade was almost continuously in action or on the march. In this period the men of the command received 1,860 death or hospital wounds; the dead counted as wounds, and but one wound being counted for each visitation of the hospital. At the end of this time there were less than fifty men who had not been wounded during the hundred days. There were 240 men left for duty, and less than ten men deserted. A search into the history of warlike exploits has failed to show me any endurance of the worst trials of war surpassing this." It is doubtful whether the survey of the great railroad in the Andes surpassed in danger and stirring adventures the exploits of the engineering party led by Robert Brewster Stanton last winter through the cañons of the Colorado. In less than 500 miles 520 rapids, falls, and cataracts were encountered. Mr. Stanton will describe this expedition in the November *Scribner*. A series of photographs was taken, some of which will be used to illustrate the article. A number of nurses in the New York City Training School have written for Mrs. Frederick Rhinelander Jones (who offered prizes for the best) sketches of their actual experiences in a typical day, or night, of hospital work. These will be embodied in Mrs. Jones's article "On the Training of a Nurse," also in the November number.

CATARRH.

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CALENDAR OF SOCIETIES.

Biological Society, Washington.

Oct. 18.—H. E. Van Deman, Cultivated Fruits in the Mountains of North Carolina; T. N. Gill, On the Super-Family Cyclopteroidea; Lester F. Ward, American Triassic Flora.

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